

This PDB release includes 34 new atomic coordinate entries (see Table 5). The number of coordinate entries is now 535, and the total size of DATAPRTP is 108 megabytes. Among the newly available entries are coordinates of interleukin 1 β from three different laboratories and coordinates of porcine pepsin, also from three different laboratories. In addition, Richard Dickerson has replaced program NEWHELIB with NEWHEL90, which is available on PDBPGMTP.

Frances Bernstein and Tom Koetzle will be attending the XVth Congress and General Assembly of the IUCr to be held July 19 - 28 in Bordeaux, France. Tom also will be attending the 12th International CODATA Conference in Columbus, Ohio, July 15-19. Frances and Tom are looking forward to meeting with PDB depositors and users in Bordeaux and Columbus.

Jennie Weng has left the PDB to take up a new position in another division at Brookhaven. Jennie has made important contributions in systems maintenance, programming, and preparation of distribution tapes, and we will miss having her as a colleague. We all wish her well in her new position.

Please note that some prices on the PDB order form, included as the last two pages of this Newsletter, have changed. In addition, we regret that we can no longer accept wire transfers because of a change of banking arrangements at Brookhaven. Please use the new form for all Brookhaven orders. For ready reference, a complete list of PDB Brookhaven staff with telephone numbers and BITNET electronic mail addresses is given at the bottom of this page. It is possible to place a standing order for each quarterly DATAPRTP release; anyone interested in placing such a standing order should contact Frances Bernstein.

Nine affiliated centers now offer DATAPRTP for distribution. These centers, listed immediately below, are members of the Protein Data Bank Service Association (PDBSA). Centers designated with an asterisk distribute DATAPRTP on magnetic media; those without an asterisk are on-line DATAPRTP distributors.

CAN/SND, Canadian Scientific Numeric Data Base Service , Ottawa

contact Roger Gough telephone 613-993-3294 e-mail CANSND@NRCVM01

CAOS/CAMM, Dutch National Facility for Computer-Assisted Chemistry, Nijmegen

contact Jan Noordik telephone 0031-80-613386 e-mail NOORDIK@CAOS.CAOS.KUN.NL

EMBL, European Molecular Biology Laboratory, Heidelberg, FRG

contact Peter Rice telephone 0049-6221-387-247 e-mail RICE@EMBL

***JAICI, Japan Association for International Chemical Information, Tokyo**

contact Hideaki Chihara telephone

NCSA, National Center for Supercomputing Applications, University of Illinois at Urbana-Champaign

contact Joseph Golab telephone 217-244-2756 e-mail JGOLAB@NCSA.UTUC.EDU

***Osaka University, Institute for Protein Research, Osaka, Japan**

contact Yukiteru Katsube telephone 0081-6-877-5111 ext 3912

Pittsburgh Supercomputing Center

contact Hugh Nicholas telephone 412-268-4960 e-mail NICHOLAS@CPWPSCA

Prophet, BBN Systems and Technologies Corp., Cambridge MA

contact Wayne Rindone telephone 617-873-2669 e-mail PROPHET-HELP@BBN.COM

SEQNET , Daresbury Laboratory, Warrington, UK

contact User Interface Group telephone 0044-925-603351 e-mail UIG@DARESBUURY.AC.UK

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TABLE 1. PROTEIN DATA BANK, INFORMATION AVAILABLE ON MAGNETIC TAPE

		15-APR-1990	
CODE	ITEM	AVAILABILITY	USA JAP
DATAPRTP	ALL CURRENT COORDINATE ENTRIES (TABLE 5), COMPUTER PROGRAMS (TABLE 3, PART A), ALL CURRENT BIBLIOGRAPHIC ENTRIES (TABLE 7 - NO COORDINATES IN BIB ENTRIES)	X	X
YEAR99TF	NEW OR REVISED COORDINATE ENTRIES FOR 1989	X	
PART90TF	NEW OR REVISED COORDINATE ENTRIES FOR 1990 (TO DATE)	X	
PDBPGMTP	COMPUTER PROGRAMS AND MISCELLANEOUS FILES (TABLE 3, PARTS A AND B)	X	
NONST1TF	STRUCTURE FACTOR HOLDINGS (TABLE 4 - PART 1)	X	X
NONST2TF	STRUCTURE FACTOR HOLDINGS (TABLE 4 - PART 2)	X	X
NONST3TF	STRUCTURE FACTOR HOLDINGS (TABLE 4 - PART 3)	X	X
NONST4TF	STRUCTURE FACTOR HOLDINGS (TABLE 4 - PART 4)	X	X
NONST5TF	STRUCTURE FACTOR HOLDINGS (TABLE 4 - PART 5)	X	X
NONST6TF	STRUCTURE FACTOR HOLDINGS (TABLE 4 - PART 6)	X	X
NONST7TF	STRUCTURE FACTOR HOLDINGS (TABLE 4 - PART 7)	X	X
BENDERF	PARAMETERS FOR BENT-WIRE MODELS	X	
BLDKITF	MODEL BUILDER'S KIT	X	
CONNECTF	CONNECTIVITY SPECIFICATIONS FOR ALL ATOMS	PLEASE INQUIRE AT US CENTER	
DGLOTF	DIAGONAL PLOTS (LINE PRINTER)	X	
DHDLRF	COMPLETE TORSION ANGLES	X	
DSTNCF	CONNECTIVITY SPECIFICATIONS WITH DISTANCES	X	
FIS1PLF	PHI/PSI PLOTS (LINE PRINTER)	X	
PHI51TF	LISTS OF PHI/PSI/OMEGA VALUES	X	

TABLE 2. PROTEIN DATA BANK, INFORMATION AVAILABLE ON MICROFICHE

		15-APR-1990	
CODE	ITEM	AVAILABILITY	USA JAP
DATAPRFI	ALL CURRENT COORDINATE ENTRIES (TABLE 5), COMPUTER PROGRAMS (TABLE 3, PART A), ALL CURRENT BIBLIOGRAPHIC ENTRIES (TABLE 7 - NO COORDINATES IN BIB ENTRIES)	X	X
YEAR89FI	NEW OR REVISED COORDINATE ENTRIES FOR 1989	X	
PART90FI	NEW OR REVISED COORDINATE ENTRIES FOR 1990 (TO DATE)	X	
CORR29FI	*LIST OF CORRECTIONS NO. 29 (JAN/1990 - APR/1990)	X	X
NONST1FI	STRUCTURE FACTOR HOLDINGS (TABLE 4 - PART 1)	X	X
NONST2FI	STRUCTURE FACTOR HOLDINGS (TABLE 4 - PART 2)	X	X
NONST3FI	STRUCTURE FACTOR HOLDINGS (TABLE 4 - PART 3)	X	X
NONST4FI	STRUCTURE FACTOR HOLDINGS (TABLE 4 - PART 4)	X	X
NONST5FI	STRUCTURE FACTOR HOLDINGS (TABLE 4 - PART 5)	X	X
NONST6FI	STRUCTURE FACTOR HOLDINGS (TABLE 4 - PART 6)	X	X
NONST7FI	STRUCTURE FACTOR HOLDINGS (TABLE 4 - PART 7)	X	X
BENDERFI	PARAMETERS FOR BENT-WIRE MODELS	X	
BLDKITFI	MODEL BUILDER'S KIT	PLEASE INQUIRE AT US CENTER	
CONNECTFI	CONNECTIVITY SPECIFICATIONS FOR ALL ATOMS	X	
DGLOTFI	DIAGONAL PLOTS (LINE PRINTER)	X	
DHDLRFI	COMPLETE TORSION ANGLES	X	
DSTNCFI	CONNECTIVITY SPECIFICATIONS WITH DISTANCES	X	
FIS1PLFI	PHI/PSI PLOTS (LINE PRINTER)	X	
PHI51FI	LISTS OF PHI/PSI/OMEGA VALUES	X	

TABLE 3. PROTEIN DATA BANK, COMPUTER PROGRAMS AND MISCELLANEOUS FILES

		15-APR-1990	
NAME	PURPOSE	AUTHOR(S)	REV DATE/SUPPORTED
PART A - AVAILABLE ON DATAPRTP, DATAPRFI, PDBPGMTP			
BENDER	PARAMETERS FOR BENT-WIRE MODELS	G.WILLIAMS	4/82 YES
BLDKIT	MODEL BUILDER'S KIT	E.ABOLA	2/84 YES
BRUKIT	MAKE VAX/VMS FILES FROM PDB TAPE	H.BOSSEHARD	8/85 NO
CONNECT	GENERATE FULL CONNECTIVITY	F.BERNSTEIN	7/89 YES
CONNECT	INTERMOLECULAR CONTACTS	L.ANDREWS	5/83 NO
DGLOTF	DIAGONAL PLOTS OF PRINTER	E.SWANSON, F.BERNSTEIN	1/83 YES
DHDLRF	COMPLETE TORSION ANGLES	E.ABOLA	3/80 YES
DRCTRY	DIRECTORY OF PDB DISTRIBUTION TAPE	F.BERNSTEIN	7/86 YES
DSTNCE	CALC DISTANCES FROM CONNECT RECORDS	F.BERNSTEIN	8/82 YES
FIS1PL	PHI/PSI PLOTS ON PRINTER	F.BERNSTEIN	5/79 YES
LSM	COLOR-CODED ALPHA-CARBON MODELS	R.MATELA, R.FLETTERICK	3/82 NO
NAMOD	BALL-AND-STICK MODEL DISPLAY	Y.BEPPU	4/89 NO
PHI51	MAIN-CHAIN TORSION ANGLES	ANDREWS, WILLIAMS, BERNSTEIN	2/79 YES
REFMTE	REFORMAT DATA FOR SUPERTAB, SUPERS	L.RELLICK, J.DUANE	12/83 NO
STEREO	EXTRACT X, Y, Z FROM STEREO DIAGRAMS	M.ROSSMANN	6/79 NO
TAPDIR	PRINT DIRECTORY OF TAPE CONTENTS	H.BERNSTEIN, F.BERNSTEIN	11/79 YES
TRECO	MEASURE COORDINATES WITH THEODOLITE	L.LEBTOA	1/82 NO
TORSRU	COMPLETE TORSION ANGLES	G.REEKE	10/79 NO
TOTALS	VALIDATION OF MASTER RECORD	L.ANDREWS, F.BERNSTEIN	3/82 YES
PART B - AVAILABLE ON PDBPGMTP			
ALS	SECONDARY STRUCT. CALC., PREDICTION	A.FINKELSTEIN, O.PTITSYN	10/85 NO
CRYSTAL	DATA BASE-PROTEIN CRYSTALLIZATION	G.GILLILAND	12/84 NO
NDB	NUCLEIC ACID DATA BASE + PROGRAMS	H.BERMAN ET AL.	9/89 NO
NEWHEL90*	DNA HELIX ANALYSIS	R.DICKERSON ET AL.	3/90 NO
TABLES	DISPLAY SPACE-GROUP SYMMETRY IN 3D	C.ABAD-SAPATERO, T.O'DONNELL	12/87 NO

* NEW OR REPLACEMENT ENTRY SINCE JAN-1990 NEWSLETTER
SUPPORTED PROGRAMS ARE THOSE FOR WHICH STAFF OF THE PROTEIN DATA BANK WILL PROVIDE CORRECTIONS FOR DEMONSTRATED ERRORS.

TABLE 4. PROTEIN DATA BANK, STRUCTURE FACTOR HOLDINGS

		15-APR-1990	
IDENTF CODE	MOLECULE	DEPOSITOR	DATE/ CODE
PART 1 - AVAILABLE ON NONST1TF, NONST1FI			
RIACTSF	ACTININ	E.BAKER	7/77 SF
CHYMOF	ALPHA-CHYMOTRYPSIN (TOSYL)	D.BLOW	4/73 SF
RCARP04	CALCIUM-BINDING PARVALBUMIN	R.KRETSINGER	2/74 SF
RCARP05	CALCIUM-BINDING PARVALBUMIN	R.KRETSINGER	2/74 SF
R2B5CSF	CYTOCHROME B5	F.S.MATREMS	12/77 SF
R3CVTSF	CYTOCHROME C (ALBACORE, OXIDIZED)	T.TAKANO, R.DICKERSON	7/80 SF
R4CYTSF	CYTOCHROME C (ALBACORE, REDUCED)	T.TAKANO, R.DICKERSON	7/80 SF
RCYCS501	CYTOCHROME C550	R.TIMKOVICH	4/76 SF
R1ZNASF	DNA (2 (PRIME), CGCG, HIGH-SALT, SYNTHETIC)	H.DREW, R.DICKERSON	1/81 SF
R1ZNASF	DNA (B, CGCGAATTCGGG, SYNTHETIC, 290 K)	H.DREW, R.DICKERSON	1/81 SF
RCBD04	DNA (B, CGCGAATTCGGG, SYNTHETIC, 290 K)	H.DREW, R.DICKERSON	1/81 SF
R2BDF5F	ALPHA-GLYCERALDEHYDE-3-P-DEHYDROGENASE (LOBSTR)	M.ROSSMANN	8/75 SF
RZMPSF	ALPHA-GLYCERALDEHYDE-3-P-DEHYDROGENASE	M.ROSSMANN	12/79 SF
R2BDF5F	HEMOGLOBIN (HORSE, AQUO MET AND CO)	LADNER, HEIDNER, PERUTZ	6/80 SF
R1DFBSF	HEMOGLOBIN (HUMAN, FETAL, DEOXY)	J.FRIER	6/80 SF

RUMDDEH02	HEMOGLOBIN (HUMAN, DEOXY)	M.FERUTZ, G.FERMI	5/75 SF
LAMPFY1	HEMOGLOBIN (LAMPREY)	HENDRICKSON, LOVE, KARLE	5/73 SF
R1DR06	ALPHA-LACTATE DEHYDROGENASE (DOGFISH)	M.ROSSMANN	8/75 SF
R1DR07	LACTATE DEHYDROGENASE/NAD/PYRUVATE	M.ROSSMANN	8/75 SF
R5LDHSF	LACTATE DEHYDROGENASE/S-LAC/NAD (PIG)	U.GRAU, M.ROSSMANN	1/81 SF
R1LZHSF	LYSOZYME (HEN EGG-WHITE, MONOCLONIC)	C.BLAKE, D.RICE	6/81 SF
R2LZHSF	LYSOZYME (HEN EGG-WHITE, ORTHORHOMBIC)	C.BLAKE, D.RICE	6/81 SF
RMETHYSF1	MYOGLOBIN (SPERM WHALE, MET)	T.TAKANO	6/76 SF
RDEMYF1	MYOGLOBIN (SPERM WHALE, DEOXY)	T.TAKANO	6/76 SF
R4TNASF	TRANSFER RNA (YEAST, PRE)	A.JACK, J.LADNER, A.KLUG	6/80 SF

PART 2 - AVAILABLE ON NONST2TF, NONST2FI

R1RCR5F	CYTOCHROME C (RICE)	H.OCHI, N.TANAKA	3/83 SF
R351CSF	CYTOCHROME C551 (OXIDIZED)	T.TAKANO, R.DICKERSON	9/81 SF
R451CSF	CYTOCHROME C551 (REDUCED)	T.TAKANO, R.DICKERSON	9/81 SF
R1ANASF	DNA (A, D-1000-CCGG)SPACE GROUP P 43 21 2	B.CONNER, R.DICKERSON	6/82 SF
R1ANAF2	DNA (A, D-1000-CCGG)SPACE GROUP P 21	B.CONNER, R.DICKERSON	6/82 SF
R2BNASF	DNA (B, CGCGAATTCGGG, SYNTHETIC, 16 K)	H.DREW, R.DICKERSON	11/81 SF
R3BNASF	DNA (B, 9-BC-CGCGAATTCGGG, 20 DEG C)	KOPKA, FRATINI, DICKERSON	2/82 SF
R4BNASF	DNA (B, 9-BC-CGCGAATTCGGG, 7 DEG C)	KOPKA, FRATINI, DICKERSON	2/82 SF
R5BNASF	DNA (B, CGCGAATTCGGG, SYNTHETIC)/CISPLATIN	WING, PUJARA, DREW, DCKRSH	9/83 SF
R1GAASF	GLUTAMINASE-ASPARAGINASE (ACINETOBACTER)	H.AMMON	12/82 SF
R1GASF	GLUTAMINASE-ASPARAGINASE (PSEUDOMONAS 7A)	H.AMMON	12/82 SF
R1RMQSF	HEMERYTHRIN (MET)	STENKAMP, SIEKER, JENSEN	2/83 SF
R1RMZSF	HEMERYTHRIN (AZIDO, MET)	STENKAMP, SIEKER, JENSEN	2/83 SF
R2LNSFS	INSULIN (BOVINE, 2-ZINC)DES-PHE B1	C.REYNOLDS, G.DODSON	5/82 SF
R1LNSFS	LEGHEMOGLOBIN (ACETATE MET)	VAINSHTEIN, HARUTYUNYAN	4/82 SF
R2LNSFS	LEGHEMOGLOBIN (ACETATE MET)	VAINSHTEIN, HARUTYUNYAN	4/82 SF
R1LNSFS	LEGHEMOGLOBIN (AQUO MET)	VAINSHTEIN, HARUTYUNYAN	4/82 SF
R2LNSFS	LEGHEMOGLOBIN (AQUO MET)	VAINSHTEIN, HARUTYUNYAN	4/82 SF
R1LNSFS	LEGHEMOGLOBIN (CYANO MET)	VAINSHTEIN, HARUTYUNYAN	4/82 SF
R2LNSFS	LEGHEMOGLOBIN (CYANO MET)	VAINSHTEIN, HARUTYUNYAN	4/82 SF
R1LNSFS	LEGHEMOGLOBIN (DEOXY)	VAINSHTEIN, HARUTYUNYAN	4/82 SF
R2LNSFS	LEGHEMOGLOBIN (DEOXY)	VAINSHTEIN, HARUTYUNYAN	4/82 SF
R1LNSFS	LEGHEMOGLOBIN (FLUORO MET)	VAINSHTEIN, HARUTYUNYAN	4/82 SF
R2LNSFS	LEGHEMOGLOBIN (FLUORO MET)	VAINSHTEIN, HARUTYUNYAN	4/82 SF
R1LNSFS	LEGHEMOGLOBIN (NICOTINATE MET)	VAINSHTEIN, HARUTYUNYAN	4/82 SF
R2LNSFS	LEGHEMOGLOBIN (NICOTINATE MET)	VAINSHTEIN, HARUTYUNYAN	4/82 SF
R1LNSFS	LEGHEMOGLOBIN (FERRO)/NITROSOBENZENE	VAINSHTEIN, HARUTYUNYAN	2/83 SF
R2LNSFS	LEGHEMOGLOBIN (FERRO)/NITROSOBENZENE	VAINSHTEIN, HARUTYUNYAN	2/83 SF
R1LNSFS	LYSOZYME (HEN EGG-WHITE, MONOCLONIC)	HOGLE, RAO, SUNDARALINGAM	8/82 SF
R1LNSFS	MELITTIN	TEWILLIGER, EISENBERG	8/81 SF
R1VOVSF	OVUMUCOID FRAGMENT (JAPANESE QUAIL)	E.PAPAMICO, R.HUBER	1/82 SF
R2BPS2F	PROFOSPHOLIPASE A2 (BOVINE)	D.IKSTRA, HOL, DREYER	9/82 SF
R1RPS2F	INORGANIC PYROPHOSPHATASE	R.HARUTYUNYAN ET AL.	2/83 SF
R1RNS3F	RIBONUCLEASE A	BORKAKOTI, MOSS, PALMER	6/82 SF
R3TMSF	THERMOLYSIN (NATIVE)	B.MATTHEWS, M.HOLMES	2/82 SF
R2PTNSF	TRYPSIN (ORTHO-RHOMBIC, 2.4M (NH4)2SO4)	J.WALTER, R.HUBER	10/81 SF
R1TPOSF	TRYPSIN (ORTHO-RHOMBIC)	BODE, WALTER, HUBER	9/82 SF
R3PTNSF	TRYPSIN (TRIGONAL, 2.4M (NH4)2SO4)	J.WALTER, R.HUBER	10/81 SF
R3PTNSF	TRYPSIN (BENZAMIDINE INHIBITED)	BODE, SCHWAGER, WALTER	9/82 SF
R1TPTSF	TRYPSIN (P-AMIDINO-PHENYL-PYRUVATE)	WALTER, BODE, HUBER	9/82 SF
R4TPTSF	TRYPSIN INHIBITOR (BOVINE, PANCREAS)	R.HUBER, J.DEISENHOFER	9/82 SF
R2TPTSF	TRYPSIN/TRYP SIN INHIBITOR COMPLEX	R.HUBER, J.DEISENHOFER	9/82 SF
R1TPTAF	TRYPSIN (AMERGO)/TRYPSIN INHIBITOR	R.HUBER, BODE, DEISENHOFER	9/82 SF
R2TCAF	TRYPSIN INHIBITOR (2.4M MGSO4)	J.WALTER, R.HUBER	10/81 SF
R1TGCFS	TRYPSINOGEN (2.5 CH3OH, 5 HOH)	J.WALTER, R.HUBER	10/81 SF
R1TGTFS	TRYPSINOGEN (173 K, .7 CH3OH, .3 HOH)	J.WALTER, R.HUBER	10/81 SF
R2TGTFS	TRYPSINOGEN (103 K, .7 CH3OH, .3 HOH)	J.WALTER, R.HUBER	10/81 SF
R2TGTFS	TRYPSINOGEN/TRYP SIN INHIBITOR	R.HUBER ET AL.	9/82 SF
R3TPTSF	TRYPSINOGEN/TRYP SIN INHIBITOR/ILE-VAL	R.HUBER ET AL.	9/82 SF
R2TPTSF	TRYPSINOGEN/PTI/ILE-VAL (MERCURATED)	J.WALTER, R.HUBER	10/81 SF
R1TGSFS	TRYPSINOGEN/PTI	R.HUBER ET AL.	9/82 SF

PART 3 - AVAILABLE ON NONST3TF, NONST3FI

R1CATSF	CATALASE (BEEF LIVER)	M.ROSSMANN	11/81 SF
R2CBASF	ALPHA-CHYMOTRYPSIN (BOVINE)	H.TSUKADA, D.BLOW	11/84 SF
R2CASF	GAMMA-CHYMOTRYPSIN	COHEN, DAVIES, SILVERTON	7/84 SF
R2C2CSF	CYTOCHROME C2 (OXIDIZED)	BHATTA, FINZEL, KRAUT	11/83 SF
R3C2CSF	CYTOCHROME C2 (REDUCED)	BHATTA, FINZEL, KRAUT	11/83 SF
R2ANASF	DNA (A, GGGGCCCC, SYNTHETIC)	MCCALL, BROWN, KENNARD	8/85 SF
R6BNASF	DNA (B, CGCGAATTCGGG, SYNTHETIC)/NETROPSIN	M.KOPKA, R.DICKERSON	8/84 SF
R7BNASF	DNA (B, CGCGAATTCGGG, ANISO TEMP FACTORS)	HOLBROOK, DICKERSON, KIM	1/85 SF
R1FXLSF	FLAVODOXIN (D. VULGARIS, UNREFINED)	WENENPAUGH, SIEKER, JENSON	10/84 SF
R1G1LSF	GLUTATHIONE PEROXIDASE (BOVINE)	O.EPP, R.LADENSTEIN	6/85 SF
R2HBSF	HEMOGLOBIN (HUMAN, DEOXY)	G.FERMI, M.PERUTZ	3/84 SF
R1RHOSF	HEMOGLOBIN (HUMAN, OXY)	B.SHAANAN	3/84 SF
R1MCF5F	IGA FAS (KAPPA)MCP603	G.COHEN ET AL.	7/84 SF
R2MCF5F	IGA FAS (KAPPA)MCP603/PROSPROCHOLINE	PADLAN, COHEN, DAVIES	10/84 SF
R1RFSF	RIFAMYCIN FRAGMENT	S.BRYANT ET AL.	4/85 SF
R1LZTSF	LYSOZYME (HEN EGG-WHITE, TRICLINIC)	HSDON, BRWN, SIEKER, JENSON	4/85 SF
R1MBSF	MYOGLOBIN (SPERM WHALE, OXY)	S.PHILLIPS	3/84 SF
R2CVOSF	OVUMUCOID THIRD DOMAIN (SILVER PEARLANT)	W.BODE, O.EPP	6/85 SF
R1PDPF	PAPAIN D	J.JANSONIUS	10/84 SF
R3R2SF	PROTEINASE II (RAT MAST CELL)	S.REMINGTON, B.MATTHEWS	9/84 SF
R5PTFSF	PTI (X-RAY)	A.WLODAWER, R.HUBER	10/84 SF
R5PTFSF	PTI (NEUTRON)	A.WLODAWER, R.HUBER	10/84 SF
R5KASFX	RIBONUCLEASE A (X-RAY)	A.WLODAWER	6/85 SF
R5KASFN	RIBONUCLEASE A (NEUTRON)	A.WLODAWER	6/85 SF
R5KXNSF	RUBREDOXIN (C.PASTEURIANUM)	WATENPAUGH, SIEKER, JENSON	10/84 SF
R2VBSF	VIRUS COAT PROTEIN (SBMV, T=1)	M.ROSSMANN	4/85 SF
R4SBVSF	VIRUS COAT PROTEIN (SOUTHERN BEAN MOSAIC)	M.ROSSMANN	4/85 SF

PART 4 - AVAILABLE ON NONST4TF, NONST4FI

R2APR5F	RHIZOPIPEPSIN (ACID PROTEINASE)	K.SUGUNA, D.DAVIES	3/87 SF
R3WGSF	AGGLUTININ (WHEAT GERM, ISOLECTIN 2)	C.WRIGHT	8/86 SF
R2AZSF	AGURIN (ALCALIGENES DENITRIFICANS)	E.BAKER, G.NORRIS	10/86 SF
R31CBSF	CALCIUM-BINDING PROTEIN (INTESTINAL)	D.SZEBENYI, K.MOFFAT	9/86 SF
R2CCY5F	CYTOCHROME C (PRIME)	B.FINZEL ET AL.	8/85 SF
R2CYP5F	CYTOCHROME C PEROXIDASE (YEAST)	FINZEL, POULOS, KRAUT	8/85 SF
R8BNASF	DNA (CGCGAATTCGGG, SYNTHETIC)/BOECRST 33258P	P.UJARA, R.DICKERSON	8/86 SF
R1DN4SF	DNA ((-)-CG-BR-CG-BR-CG, SYNTHETIC, 18 DEG C)	D.MORAS ET AL.	12/86 SF
R1DN5SF	DNA ((-)-CG-BR-CG-BR-CG, SYNTHETIC, 37 DEG C)	D.MORAS ET AL.	12/86 SF
R1RMSF	LYS 7-DNP-LYS 41 RIBONUCLEASE A	B.FINZEL ET AL.	8/85 SF
R1CTFSF	L7/L12 50S RIBOSOMAL PROTEIN (C-TERMINAL)	M.LEIJONMARCK, A.LILJAS	9/86 SF
R2MHR5F	MYOSEMERYTHRIN	SHERIFF, HENDRICKSON	4/87 SF
R1RNTSF	RIBONUCLEASE T1/GUANYLIC ACID COMPLEX	W.SAENGER ET AL.	7/87 SF
R6PTFSF	TRYPSIN INHIBITOR (FORM III, BOVINE)	A.WLODAWER	5/87 SF
R1VP1SF	PLYOMA VIRUS CAPSID	RAYMENT, BAKER, CASPAR	3/83 SF

PART 5 - AVAILABLE ON NONST5TF, NONST5FI

R1MVSF	MENGO VIRUS	M.ROSSMANN	2/87 SF
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PART 6 - AVAILABLE ON NONST6TF, NONST6FI

R2APR5F	ACID PROTEINASE/PEPTIDE INHIBITOR COMPLEX	SUGUNA, D.DAVIES	6/87 SF
R9DNASF	DNA (A, GCGCGGGG, SYNTHETIC)	U.HEINEMANN	7/88 SF
R1DNHSF	DNA (CGCGAATTCGGG)-BOECRST 33258	A.WANG ET AL.	2/88 SF
R3DNBSF	DNA (CCAGGATTCGG)	G.PRIVE, R.DICKERSON	3/88 SF
R1D16SF	DNA (CGCGGTTTCGGCGG)	R.DICKERSON ET AL.	4/88 SF
R3NASF			

R1PKFSF	PROSPROFUCTOKINASE (E. COLI)-F6P-ADP/HG	Y.SHIRAKIHARA, P.EVANS	1/88 SF
R2PKFSF	PROSPROFUCTOKINASE (E. COLI)	M.RYPNIEWSKI, P.EVANS	1/88 SF
R3PKFSF	PROSPROFUCTOKINASE (B. ST.)	P.EVANS, P.HUDSON	1/88 SF
R4PKFSF	PROSPROFUCTOKINASE (B. ST.)	P.EVANS, P.HUDSON	1/88 SF
R5PKFSF	PROSPROFUCTOKINASE (B. ST.) T-STATE	EVANS, FARRANTS, LAWRENCE	1/88 SF
R1PA6SF	PSEUDOAZURIN (ALCALIGENES FAECALIS)	PETRATOS, DAUTER, WILSON	6/88 SF
R7R6ASF	RIBONUCLEASE (RIBONUCLEASE-FREE)	A.WLODAWER, G.GILLILAND	6/88 SF
R4RV5FA	RHINOVIRUS 14 (HUMAN)	E.ARNOLD, H.ROSSMANN	8/87 SF
R4RV5FB	RHINOVIRUS 14 (HUMAN) 5M4 KAU (CN) 2 DERIV	E.ARNOLD, H.ROSSMANN	8/87 SF
R4RV5FC	RHINOVIRUS 14 (HUMAN) 1M4 KAU (CN) 2 DERIV	E.ARNOLD, H.ROSSMANN	8/87 SF

PART 7 - AVAILABLE ON NONST7TP, NONST7FI

R5CYT5F	CYTCHROME C (ALBACORE, REDUCED)	T.TAKANO	1/88 SF
R1BD15F	DNA (CAGAGCCCTGG)	U.HEINEMANN	8/89 SF
R1DN95F	*DNA (CGCATATATCGG)	C.YOON, R.DICKERSON	4/89 SF
R4GPD5F	APO-GLYCERALDEHYDE-3-P-DEHYDRGNSE (LBSTR)	GRIFFITH, SONG, ROSSMANN	1/88 SF
R1COH8F	HEMOGLOBIN (ALPHA-FERROUS, BETA-COBALTOUS)	B.LUISI	1/89 SF
R3HFM5F	HYHEL-10 FAB/LYSOZYME COMPLEX	E.PADLAN, D.DAVIES	8/88 SF
R1LDB5F	APO-L-LDB (BACILLUS STEAROTHERMOPHILUS)	K.P.FONTEK, M.ROSSMANN	3/89 SF
R2LDB5F	L-LDB/HAD/FRUCTOSE-1,6-BISPHOSPHATE	K.P.FONTEK, M.ROSSMANN	3/89 SF
R1LIL5F	LACTATE DEHYDROGENASE (L. CASEI)	BUEHNER, RECHT, HENSEL	1/88 SF
R2LX05F	LACTATE DEHYDROGENASE (MOUSE TESTES)	M.ROSSMANN	11/87 SF
R2L2T5F	LYSOZYME (TRICLINIC)	RAMANADHAM, SIEKER, JNSN	9/89 SF
R2L2E5F	LYSOZYME (TURKEY)	M.PARSONS, S.PHILLIPS	10/88 SF
R4MBD5F	MALATE DEHYDROGENASE (PORCINE)	J.BIRKTOFT, L.BANASZAK	4/89 SF
R1PHB5F	*MYOGLOBIN (PIG)	A.WILKINSON ET AL.	11/89 SF
R4MBN5F	MYOGLOBIN (SPERM WHALE, MET)	T.TAKANO	1/88 SF
R5MBN5F	MYOGLOBIN (SPERM WHALE, DEOXY)	T.TAKANO	1/88 SF
R1PRCSF	PHOTOSYNTHETIC REACTION CENTER	J.DEISENHOFER ET AL.	2/88 SF
R2RNT5F	RIBONUCLEASE T1/GUANYL-2',5'-GUANOSINE	U.HEINEMANN ET AL.	7/88 SF
R2RSP5F	ROUS SARCOMA VIRUS PROTEASE	A.WLODAWER ET AL.	10/89 SF
R1RGG5F	RUBREDOXIN (DESULFOVIBRIO GIGAS)	FREY, SIEKER, PAYAN	3/88 SF
R1TDC5F	TRYPHOSPHATE/EGLIN-C COMPLEX	P.GROS, B.DIKSTRA, M.BOLS/89 SF	
R2TRASF	TRANSFER RNA (YEAST, ASP, FORM A)	WESTHOF, DUMAS, MORAS	11/87 SF
R3TRASF	TRANSFER RNA (YEAST, ASP, FORM B)	WESTHOF, DUMAS, MORAS	11/87 SF

* NEW OR REPLACEMENT ENTRY SINCE JAN-1990 NEWSLETTER

CODES

SF STRUCTURE FACTORS

TABLE 5. PROTEIN DATA BANK, ATOMIC COORDINATE HOLDINGS

15-APR-1990

IDENT CODE	MOLECULE	DEPOSITOR(S)	DATE/STATUS
ANTI-HYPERTENSIVE, ANTI-VIRAL			
1BD5	BDS-I (SEA ANEMONE) (NMR MIN AVRGD STRUCT)	CLORE, DRISCOLL, GRONENBORN	11/88
2BD5	BDS-I (SEA ANEMONE) (NMR, 42 STRUCTURES)	CLORE, DRISCOLL, GRONENBORN	11/88
CALCIUM BINDING PROTEIN			
3CLN	CALMODULIN (RAT)	Y.BABU, C.BUGG, M.COOK	5/88 R
1ALC	ALPHA-LACTALBUMIN (BABOON)	ACHARYA, STUART, PHILLIPS	8/89
COAGULATION INHIBITOR			
5BIR	HIRUDIN (NMR, MIN AVERAGED STRUCTURE)	CLORE, GRONENBORN ET AL.	1/90
2BIR	HIRUDIN (NMR, 32 STRUCTURES)	CLORE, GRONENBORN ET AL.	12/88
6BIR	HIRUDIN (NMR, K47E, MIN AVERAGED STRUCTURE)	CLORE, GRONENBORN ET AL.	1/90
5BIR	HIRUDIN (NMR, K47E, 32 STRUCTURES)	CLORE, GRONENBORN ET AL.	12/88
CONTRACTILE PROTEIN			
1CPV	CALCIUM-BINDING PARVALBUMIN SET 6A	R.KRETSINGER	8/74
2CPV	CALCIUM-BINDING PARVALBUMIN SET 6B	R.KRETSINGER	8/74
3CPV	CALCIUM-BINDING PARVALBUMIN SET 6I	R.KRETSINGER	8/74
3ICB	CALCIUM-BINDING PROTEIN (INTESTINAL)	D.SZEBENYI, K.MOFFAT	9/86
2TMA	ALPHA TROPOMYOSIN	G.PHILLIPS JR., C.COHEN	9/87 A
4TNC	TROPONIN C (CHICKEN)	M.SUNDARALINGAM	9/87
5TNC	TROPONIN C (TURKEY)	O.HERZBERG, M.JAMES	5/88 R
CRYSTALLIN			
1GCR	GAMMA-II CRYSTALLIN (CALF)	T.BLUNDELL	8/85
CYTOKINE			
111B	*INTERLEUKIN 1B (HUMAN)	FINZEL, WATENFAUGH, EINSFAHR	12/89
211B	*INTERLEUKIN 1B (HUMAN)	PRIESTLE, SCARER, GRUETTER	1/90
411B	*INTERLEUKIN 1B (HUMAN)	VEERAPANDIAN, POULOS ET AL.	3/90
DNA BINDING			
3GAP	CATABOLITE GENE ACTIVATOR PROTEIN/CMP	I.WEBER, T.STEITS	4/87
1CRO	CRO REPRESSOR PROTEIN	B.MATTHEWS ET AL.	6/87 A
2CRO	CRO (PEAGE 434)	S.HARRISON ET AL.	12/88
1R69	R1-69 N-TERMINUS OF 434 REPRESSOR	S.HARRISON ET AL.	12/88
2GN5	GENE-5 DNA BINDING PROTEIN	G.BRAYEY, A.MCIPHERSON	1/86
1LRP	LAMBDA REPRESSOR (BACTERIOPHAGE LAMBDA)	C.PABO, M.LEWIS	12/87 A
1LRD	LAMBDA REPRESSOR/DNA	S.JORDAN, C.PABO	10/88
1WRP	TRP REPRESSOR (TRIGONAL)	P.SIGLER ET AL.	12/87
2WRP	TRP REPRESSOR (ORTHO-RHOMBIC)	P.SIGLER ET AL.	12/87
3WRP	TRP REPRESSOR	P.SIGLER ET AL.	12/87
ELECTRON TRANSFER (cuproproteins)			
2ZEA	AZURIN (ALCALIGENES DENITRIFICANS)	E.BAKER, G.NORRIS	10/86
1AZU	AZURIN (PSEUDOMONAS AERUGINOSA)	E.ADMAN, L.SIEKER, L.JENSEN	8/80
1PCY	PLASTOCYANIN (POPLAR, CU2+)	J.GUSS, B.FREEMAN	8/80
2PCY	PLASTOCYANIN (POPLAR, APO)	GARRETT, GUSS, FREEMAN	11/83
3PCY	PLASTOCYANIN (HG2+ SUBSTITUTED)	CHURCH, GUSS, POTTER, FREEMAN	12/85
4PCY	PLASTOCYANIN (CROSS-LINKED, CU+1, PH 7.8)	J.M.GUSS	9/86
5PCY	PLASTOCYANIN (CU+1, PH 7.0)	J.M.GUSS	9/86
6PCY	PLASTOCYANIN (CU+1, PH 3.8)	J.M.GUSS	9/86
1PAZ	PSEUDOAZURIN (ALCALIGENES FAECALIS)	PETRATOS, DAUTER, WILSON	6/88
2PAZ	PSEUDOAZURIN (ALCALIGENES FAECALIS)	E.ADMAN, K.PETRATOS	9/88
ELECTRON TRANSFER (cytochrome)			
2B5C	CYTCHROME B5 (OXIDIZED)	F.S.MATHEWS	12/77
156B	CYTCHROME B562 (E.COLI, OXIDIZED)	BETZGE, CZERNIWSKI, MATHEWS	8/79
3CYT	CYTCHROME C (ALBACORE, OXIDIZED)	T.TAKANO, R.DICKERSON	7/80
5CYT	CYTCHROME C (ALBACORE, REDUCED)	T.TAKANO	1/88 R
1CVC	CYTCHROME C (BONITO, BEART)	M.KARUDO	8/76
1CCY	CYTCHROME C (RICE)	B.OCHI, M.TANAKA	3/83
2CCY	CYTCHROME C (PRIME)	B.FINZEL ET AL.	8/85
2C2C	CYTCHROME C2 (OXIDIZED)	G.BRATIA, B.FINZEL, J.KRAUT	11/83
3C2C	CYTCHROME C2 (REDUCED)	G.BRATIA, B.FINZEL, J.KRAUT	11/83
1CY3	CYTCHROME C3	R.BASER, M.FREY, F.PAYAN	6/85
2CV	CYTCHROME C3 (DESULFOVIBRIO VULGARIS)	N.YASUOKA, M.KAKUDO	11/83
1CC5	CYTCHROME C5 (OXIDIZED, AZOTOBACTER VINLD)	C.D.STOUT, D.CARTER	8/84
155C	CYTCHROME C550	R.TIMKOVICH	8/76
351C	CYTCHROME C551 (OXIDIZED)	MATSUURA, TAKANO, DICKERSON	7/81
451C	CYTCHROME C551 (REDUCED)	MATSUURA, TAKANO, DICKERSON	7/81
ELECTRON TRANSFER (flavoproteins)			
3FXN	FLAVODOXIN (CLOSTRIDIUM MP, OXIDIZED)	M.LUDWIG	12/77
4FXN	FLAVODOXIN (CLOSTRIDIUM MP, SEMIQUINONE)	M.LUDWIG	12/77
1FX1	FLAVODOXIN (D. VULGARIS, UNREFINED)	C.W.DENFPAUGE, SIEKER, JENSEN	10/84
ELECTRON TRANSFER (iron-sulfur proteins)			
4FD1	FERRIDOXIN (ACTOBACTER VINELANDII)	M.D.STOUT	6/88 R
1D2	FERRIDOXIN MUTANT (C20A)	C.D.STOUT	12/88
1FBX	FERRIDOXIN (B. THERMOPROTEOLYTICUS)	FUKUYAMA, TSUKIHARA, KATSUBE	6/88 R
1FDX	FERRIDOXIN (PEPTOCOCCUS AEROGENES)	E.ADMAN, L.SIEKER, L.JENSEN	8/76
3FXC	FERRIDOXIN (SPIRULINA PLATENSIS)	TSUKIHARA, KATSUBE, KAKUDO	12/81
1AIP	HIGH POTENTIAL IRON PROTEIN	J.KRAUT	4/75
4RXN	RUBREDOXIN (C. PASTEURIANUM, UNCONSTR REF)	WATENFAUGH, SIEKER, JENSEN	10/84
5RXN	RUBREDOXIN (C. PASTEURIANUM, NRG+XTAL REF)	K.WATENFAUGH	10/84
1RDG	RUBREDOXIN (DESULFOVIBRIO GIGAS)	M.FREY, L.SIEKER, F.PAYAN	3/88

3RXN	RUBREDOXIN (DESULFOVIBRIO VULGARIS)	E.ADMAN, L.SIEKER, L.JENSEN	9/80
ELONGATION FACTOR			
1EFM	ELONGATION FACTOR TU (TRYPSIN-MODIFIED)	F.JURNAK	5/87 A
1ETU	ELONGATION FACTOR TU (DOMAIN I)/GDP CMLPT	L.A.COUR ET AL.	1/88
EXCITATION ENERGY TRANSFER			
3KCL	BACTERIOCHLOROPHYLL A PROTEIN	TRONRUD, SCHMID, MATTHEWS	6/87
GLYCOSIDASE INHIBITOR			
1BOE	ALPHA-AMYLASE INHIBITOR BOE-467A	P.FLUGRATH, WIEGAND, HUBER	1/89
2BOE	*TENDAMISTAT (NMR, 9 STRUCTURES)	K.WUETHRICH ET AL.	5/89
HORMONE			
1PPT	AVIAN PANCREATIC POLYPEPTIDE	T.BLUNDELL	1/81
1KY1	DEAMINO-OXYTOCIN (MET FORM)	T.BLUNDELL ET AL.	5/87
1KY2	DEAMINO-OXYTOCIN (DRY FORM)	T.BLUNDELL ET AL.	5/87
1GCN	GLUCAGON	T.BLUNDELL	10/77
2INS	INSULIN (BOVINE, 2-ZINC) DES-PHE B1	C.REYNOLDS, G.GODSON	5/82
3INS	INSULIN (PORCINE, XRAY+NEUTRON)	A.WLODAWER, H.SAVAGE	10/88
4INS	*INSULIN (PORCINE, 2-ZINC)	G.GODSON ET AL.	7/89 R
HISTOCOMPATIBILITY ANTIGEN			
1HLA	HISTOCOMPATIBILITY ANTIGEN A2 (HUMAN)	D.WILEY ET AL.	10/87 A
2HLA	*HLA-A*68	GARRETT, SAPER, WILEY	10/89
3HLA	*HLA-A*2	D.WILEY ET AL.	10/89
IMMUNOGLOBULIN			
1MCG	IMMUNOGLOBULIN B-J INTACT MCG	SCHIFFER, EDMUNDSON ET AL.	5/78 A
1REI	IMMUNOGLOBULIN B-J FRAGMENT (V-DIMER) REI	O.EFF, R.HUBER	3/76
2REI	IMMUNOGLOBULIN B-J FRAGMENT (V-HMMER) REE	FUREY, WANG, YOO, SAX	6/83
1FBJ	IGA FAB (KAPPA) J539	T.BEAT, D.DAVIES ET AL.	6/86
1MCP	IGA FAB (KAPPA) MCPC603	SATOW, COHEN, PADLAN, DAVIES	7/84
2MCP	IGA FAB (KAPPA) MCPC603/PROSPHOCROLINE	E.PADLAN, G.COHEN, D.DAVIES	10/84
2FB4	IGG1 FAB (LAMBDA) KOL	M.MARQUART, R.HUBER	4/89 R
3FAB	IMMUNOGLOBULIN FAB (PRIME) NEW	R.POLJAK	9/81
1P19	FAB F19.9 (MOUSE)	R.POLJAK ET AL.	11/88
1FC1	IMMUNOGLOBULIN FC (HUMAN)	J.DEISENHOFER	5/81
1FC2	IMMUNOGLOBULIN FC-FRAGMENT B COMPLEX	J.DEISENHOFER	5/81
1PFC	IGG PFC FRAGMENT	L.M.AMZEL	10/81
2IG2	IGG1 (LAMBDA) KOL	M.MARQUART, R.HUBER	4/89 R
COMPLEX (hemoglobin-aldolase)			
2HFL	HYHEL-5 FAB/LYSOZYME COMPLEX	S.SHEARFF, D.DAVIES	8/87
3HFM	HYHEL-10 FAB/LYSOZYME COMPLEX	E.PADLAN, D.DAVIES	8/88
LECTIN			
2CNA	CONCAVALIN A	G.REEKE, J.BECKER, G.EDELMAN	4/75
3CNA	CONCAVALIN A	K.HARDMAN	9/76
1CN1	CONCAVALIN A (DEMETALLIZED)	M.SBOHAM	12/81
3WGA	AGGLUTININ (WHEAT GERM, ISOLECTIN 2)	C.WRIGHT	3/86
LYMPHOKINE			
1TNF	TUMOR NECROSIS FACTOR	M.ECK, S.SPANG	8/89
MEMBRANE GLYCOPROTEIN			
1BMG	HAEMAGGLUTININ (INFLUENZA VIRUS)	D.WILEY	6/86
NUCLEIC ACID ASSOCIATED PROTEIN			
1UBO	UBIQUITIN (HUMAN)	VIJAY-KUMAR, BUGG, COOK	1/87
ONCOGENE PROTEIN			
2P21	C-H-RAS P21 PROTEIN (CATALYTIC DOMAIN)	S.-H.KIM	7/89 A
3P21	*C-H-RAS P21 PROTEIN MUTANT (G12V)	S.-H.KIM	1/90 A
OXYGEN STORAGE			
1MBA	MET MYOGLOBIN (APLYSIA LIMACINA) PH 7.0	M.BOLOGNESI ET AL.	2/89
2MBA	MET MYOGLOBIN (A.LIMACINA)/AZIDE PH 7.0	M.BOLOGNESI ET AL.	2/89
3MBA	MET MYOGLOBIN (A.LIMACINA)/FLUORIDE PH 7.0	M.BOLOGNESI ET AL.	2/89
4MBA	MET MYOGLOBIN (A.LIMACINA)/IMADAZOLE	M.BOLOGNESI ET AL.	2/89
1PMB	MYOGLOBIN (PIG)	A.WILKINSON ET AL.	11/89
1MBS	MYOGLOBIN (SEAL, MET)	E.SCOULOUDI	3/79
1MBD	MYOGLOBIN (SPERM WHALE, DEOXY)	S.PHILLIPS	8/81
1MBN	MYOGLOBIN (SPERM WHALE, MET)	H.WATSON	4/73
4MBN	MYOGLOBIN (SPERM WHALE, MET)	T.TAKANO	1/88 R
5MBN	MYOGLOBIN (SPERM WHALE, DEOXY)	T.TAKANO	1/88 R
1MBE	MYOGLOBIN (SPERM WHALE, OXY)	S.PHILLIPS	8/81
1MB5	MYOGLOBIN (SPERM WHALE, CO, NEUTRON)	HANSON, NORVELL, SCHOENBORN	11/82
1MBC	MYOGLOBIN (SPERM WHALE, CARBONMONOX, 260 K)	J.KURIYAN, G.PETSKO	9/88
OXYGEN TRANSPORT			
1ERB	HEMERYTHRIN B	M.HENDRICKSON	6/76 A
1ER3	HEMERYTHRIN (ASIDO, MET, SIPHONOSOMA)	S.MITH, HENDRICKSON, ADDISON	5/83 A
1EMQ	HEMERYTHRIN (MET)	STENKAMP, SIEKER, JENSEN	2/83
1EM2	HEMERYTHRIN (AZIDO, MET)	STENKAMP, SIEKER, JENSEN	2/83
1EDS	HEMOGLOBIN (DEER, SICKLE CELL)	E.AMMA, R.GIRLING	10/79
1ECA	ERYTHROCUORIN (AQUO, MET)	M.STEIGEMANN, E.WEBER	3/79
1ECD	ERYTHROCUORIN (REDUCED, DEOXY)	M.STEIGEMANN, E.WEBER	3/79
1ECN	ERYTHROCUORIN (CYANO, MET)	M.STEIGEMANN, E.WEBER	3/79
1ECO	ERYTHROCUORIN (CARBONMONOX)	M.STEIGEMANN, E.WEBER	3/79
2HBB	HEMOGLOBIN (HORSE, DEOXY)	S.FELTZ, G.FERMI	11/73
2HBB	HEMOGLOBIN (HORSE, AQUO MET)	R.LADNER, HEIDNER, PERUTZ	2/77
1BCO	HEMOGLOBIN (HUMAN, CARBONMONOX)	J.BALDWIN	8/79
2BCO	HEMOGLOBIN (HUMAN, CARBONMONOX, NRG REFND)	J.BALDWIN	8/79
2HBB	HEMOGLOBIN (HUMAN, DEOXY)	G.FERMI, M.PERUTZ	3/84
3HBB	HEMOGLOBIN (HUMAN, DEOXY, SYMMETRY AVRGD)	G.FERMI, M.PERUTZ	3/84
4HBB	HEMOGLOBIN (HUMAN, DEOXY, UNRESTRAINED)	G.FERMI, M.PERUTZ	3/84
1RBO	HEMOGLOBIN (HUMAN, OXY)	B.SHAANAN	6/83
1FDR	HEMOGLOBIN (HUMAN, FETAL, DEOXY)	J.FRIER	8/76
1BBS	HEMOGLOBIN S (HUMAN, SICKLE CELL)	E.PADLAN, W.LOVE	6/82
1COH	HEMOGLOBIN (ALPHA-FERROUS, BETA-COBALTOUS)	B.LUISI	1/89
2LBB	HEMOGLOBIN V (CYANO, MET, SEA LAMPREY)	ROMZATKO, HENDRICKSON, LOVE	8/85
1LBI	LEGHEMOGLOBIN (ACETATE MET)	VAINSTEIN, HARUTYUNYAN	4/82
1LBI	LEGHEMOGLOBIN (ACETATE MET)	VAINSTEIN, HARUTYUNYAN	4/82
1LBI	LEGHEMOGLOBIN (AQUO MET)	VAINSTEIN, HARUTYUNYAN	4/82
2LBI	LEGHEMOGLOBIN (AQUO MET)	VAINSTEIN, HARUTYUNYAN	4/82
1LBI	LEGHEMOGLOBIN (CYANO MET)	VAINSTEIN, HARUTYUNYAN	4/82
2LBI	LEGHEMOGLOBIN (CYANO MET)	VAINSTEIN, HARUTYUNYAN	4/82
1LBI	LEGHEMOGLOBIN (DEOXY)	VAINSTEIN, HARUTYUNYAN	4/82
2LBI	LEGHEMOGLOBIN (DEOXY)	VAINSTEIN, HARUTYUNYAN	4/82
1LBI	LEGHEMOGLOBIN (FLUORO MET)	VAINSTEIN, HARUTYUNYAN	4/82
2LBI	LEGHEMOGLOBIN (FLUORO MET)	VAINSTEIN, HARUTYUNYAN	4/82
1LBI	LEGHEMOGLOBIN (NICOTINATE MET)	VAINSTEIN, HARUTYUNYAN	4/82
2LBI	LEGHEMOGLOBIN (NICOTINATE MET)	VAINSTEIN, HARUTYUNYAN	4/82
1LBI	LEGHEMOGLOBIN (FERRO)/NITROSOBENZENE	VA	

RIBOSOMAL PROTEIN

1CTF L7/L12 50S RIBOSOMAL PROTEIN (C-TERMINAL) M. LEIJONMARCK, A. LILJAS 9/86
STERIOD BINDING
 1UTG UTEROGLOBIN (RABBIT) J. MORNON ET AL. 3/89
 2UTG UTEROGLOBIN (RABBIT) R. BALLY, J. DELETTRE 5/89
SWEET TASTING PROTEIN
 1M0N MONELLIN (SERENDIPITY BERRY) S.-H. KIM 5/89 A
 1TR1 TRAUTMATIN I (RETEHF BERRY) S.-H. KIM 5/89 A

TOXIN

1ACX ACTINOKANTHIN V. PLETNEV, A. KUZIN 12/82
 2ABX ALPHA-BUNGAROTOXIN R. LOVE, R. STROUD 2/86
 1CTX ALPHA COBRATOXIN W. SAENGER, M. WALKINSHAM 3/82
 5EBX ERABUTOXIN A (SEA SNAKE) P. CORFIELD, T.-J. LEE, B. LOW 12/89
 3EBX ERABUTOXIN B (SEA SNAKE) B. LOW ET AL. 1/88 R
 1MLT MELITTIN TERWILLIGER, EISENBERG 8/81
 1MKB NEUROTOXIN B (LATICAUDA SEMIFASCIATA) D. TSENGHOU, G. PETSKO 8/80
 1SN3 SCORPION NEUROTOXIN (VARIANT 3) C. BUGG ET AL. 12/82

TRANSPORT (thymidine, retinol)
 2FAS PREALBUMIN (HUMAN, PLASMA) S. OATLEY, C. BLAKE 9/77
TYPE I COPPER PROTEIN
 1CB1 CUCUMBER BASIC PROTEIN J. M. GUSS 9/86 A

VIROUS

2MEV MENO VIRUS M. ROSSMANN 4/89 R
 2PLV POLIO VIRUS D. FITLIM, J. BOGLE 10/89
 4RRV RHINOVIRUS 14 (HUMAN) E. ARNOLD, M. ROSSMANN 1/88
 2RR1 RHINOVIRUS/ANTIVIRAL AGENT 1R COMPLEX M. ROSSMANN ET AL. 10/88 R
 2RS1 RHINOVIRUS/ANTIVIRAL AGENT 1S COMPLEX M. ROSSMANN ET AL. 10/88 R
 2RM2 RHINOVIRUS/ANTIVIRAL AGENT 2 COMPLEX M. ROSSMANN ET AL. 10/88 R
 2RS3 RHINOVIRUS/ANTIVIRAL AGENT 3S COMPLEX M. ROSSMANN ET AL. 10/88 R
 2R04 RHINOVIRUS/ANTIVIRAL AGENT 4 COMPLEX M. ROSSMANN ET AL. 10/88 R
 2RS5 RHINOVIRUS/ANTIVIRAL AGENT 5S COMPLEX M. ROSSMANN ET AL. 10/88 R
 2R06 RHINOVIRUS/ANTIVIRAL AGENT 6 COMPLEX M. ROSSMANN ET AL. 10/88 R
 2R07 RHINOVIRUS/ANTIVIRAL AGENT 7 COMPLEX M. ROSSMANN ET AL. 10/88 R
 2R08 RHINOVIRUS/ANTIVIRAL AGENT 8 COMPLEX M. ROSSMANN ET AL. 10/88 R
 1RM0 RHINOVIRUS MUTANT (11C199Y) M. ROSSMANN ET AL. 10/88
 2RMU RHINOVIRUS MUTANT (11V188L) T. A. JONES, L. LILJAS 6/84
 25TV VIRUS (SATELLITE TOBACCO NECROSIS) M. ROSSMANN 4/85
 45BV VIRUS (COAT PROTEIN SOUTHERN BEAN MOSAIC) M. ROSSMANN 4/85
 2TBV VIRUS (TOMATO BUSBY STUNT) S. BARRISON 6/84
 2MV VIRUS (TOBACCO MOSAIC) G. STUBBS 9/88

HYDROLASE (acid proteinase and zymogen)

4APE ACID PROTEINASE (ENDOTHEIA PARASITICA) T. BLUNDELL 6/86
 2APP ACID PROTEINASE (PENICILLIUM ANTHELIUM) A. SIELECKI, M. JAMES 1/83
 2APR ACID PROTEINASE (RHIZOPUS CHINENSIS) K. SUGUNA, D. DAVIES 3/87
 1CMS CHYMOSIN G. GILLILAND ET AL. 10/89
 2HPV HIV-1 PROTEASE M. NAVIA, P. FITZGERALD ET AL. 4/89 A
 3RPF HIV PROTEASE WLODAROW, JASKOLSKI, MILLER 8/89
 4RVP HIV-1 PROTEASE/N-AC-TI (NLE-PSI-NLE) QR A. WLODAMER ET AL. 11/89
 1PSG PEP SARCOMA VIRUS PROTEASE J. HANUSICK, R. REMINGTON 10/88
 2PSP PEP SARCOMA VIRUS PROTEASE WLODAROW, MILLER, JASKOLSKI 10/88
 2PEP *PEP SIN (PORCINE) T. BLUNDELL ET AL. 7/89
 3PEP *PEP SIN (PORCINE) C. ARAD-IPATERO, J. ERICKSON 10/89
 4PEP *PEP SIN (PORCINE) ANDREEVA, SIELECKI, JAMES 12/89

COMPLEX (acid proteinase-inhibitor)

3APR ACID PROTEINASE/PEPTIDE INHIBITOR COMPLEX K. SUGUNA, D. DAVIES 6/87

HYDROLASE (acting on acid anhydride)

1PYP INORGANIC PYROPHOSPHATASE E. HARUTYUNYAN ET AL. 2/83

HYDROLASE (acting on C-N bonds other than peptide bonds)

1BLM BETA-LACTAMASE O. HERZBERG, J. MOULT 4/87 A

HYDROLASE (carboxylic esterase)

1BP2 PHOSPHOLIPASE A2 (BOVINE) B. DIJKSTRA, J. DRENTH 4/81
 1BP3 PHOSPHOLIPASE A2 (BOVINE) TRANSAMINATED B. DIJKSTRA, J. DRENTH 6/83
 1FP2 PHOSPHOLIPASE A2 (PORCINE) B. DIJKSTRA ET AL. 6/83
 3FP2 PHOSPHOLIPASE A2 (PORCINE) MUTANT B. DIJKSTRA ET AL. 11/89
 1FP2 PHOSPHOLIPASE A2 (CA-FREE, RATTLESNAKE) S. BRUNIE, F. SIGLER 3/86
 2BP2 PHOSPHOLIPASE A2 (BOVINE) B. DIJKSTRA, W. BOL, J. DRENTH 6/81

HYDROLASE (endoribonuclease)

1RNT RIBONUCLEASE T1/GUANYLIC ACID COMPLEX W. SAENGER ET AL. 7/87
 2RNT RIBONUCLEASE T1/GUANYL-2',5'-GUANOSINE U. REINHARDT ET AL. 7/88
 3RNT RIBONUCLEASE T1/VANADATE COMPLEX W. SAENGER ET AL. 5/89

HYDROLASE (O-glycosyl)

1CB8 CELLOBIODIOLYLASE 1 (NMR MIN AVROD STRUC) G. M. CLORE, A. GRONENBORN 5/89
 2CB8 CELLOBIODIOLYLASE 1 (NMR, ALL STRUCTURES) G. M. CLORE, A. GRONENBORN 5/89
 2LHM LYSOZYME (BACTERIOPHAGE T4) L. WEAVER, B. MATTHEWS 8/86
 1L01 LYSOZYME (T4) MUTANT (T155A, T157I) B. MATTHEWS ET AL. 5/89
 1L02 LYSOZYME (T4) MUTANT (T157A) B. MATTHEWS ET AL. 2/88
 1L03 LYSOZYME (T4) MUTANT (T157C) B. MATTHEWS ET AL. 2/88
 1L04 LYSOZYME (T4) MUTANT (T157D) B. MATTHEWS ET AL. 2/88
 1L05 LYSOZYME (T4) MUTANT (T157E) B. MATTHEWS ET AL. 2/88
 1L06 LYSOZYME (T4) MUTANT (T157F) B. MATTHEWS ET AL. 2/88
 1L07 LYSOZYME (T4) MUTANT (T157G) B. MATTHEWS ET AL. 2/88
 1L08 LYSOZYME (T4) MUTANT (T157H) B. MATTHEWS ET AL. 2/88
 1L09 LYSOZYME (T4) MUTANT (T157I) B. MATTHEWS ET AL. 2/88
 1L10 LYSOZYME (T4) MUTANT (T157J) B. MATTHEWS ET AL. 2/88
 1L11 LYSOZYME (T4) MUTANT (T157K) B. MATTHEWS ET AL. 2/88
 1L12 LYSOZYME (T4) MUTANT (T157L) B. MATTHEWS ET AL. 2/88
 1L13 LYSOZYME (T4) MUTANT (T157M) B. MATTHEWS ET AL. 2/88
 1L14 LYSOZYME (T4) MUTANT (T157N) B. MATTHEWS ET AL. 2/88
 1L15 LYSOZYME (T4) MUTANT (T157O) B. MATTHEWS ET AL. 2/88
 1L16 LYSOZYME (T4) MUTANT (G156D) B. MATTHEWS ET AL. 2/88
 1L17 LYSOZYME (T4) MUTANT (I3V) B. MATTHEWS ET AL. 2/88
 1L18 LYSOZYME (T4) MUTANT (I3Y) B. MATTHEWS ET AL. 5/89
 1L19 LYSOZYME (T4) MUTANT (S38D) B. MATTHEWS ET AL. 5/89
 1L20 LYSOZYME (T4) MUTANT (N144D) B. MATTHEWS ET AL. 5/89
 1L21 LYSOZYME (T4) MUTANT (N55G) B. MATTHEWS ET AL. 5/89
 1L22 LYSOZYME (T4) MUTANT (K124G) B. MATTHEWS ET AL. 5/89
 1L23 LYSOZYME (T4) MUTANT (G77A) B. MATTHEWS ET AL. 5/89
 1L24 LYSOZYME (T4) MUTANT (A82P) B. MATTHEWS ET AL. 5/89
 1L25 LYSOZYME (T4) MUTANT (P86A) B. MATTHEWS ET AL. 5/89
 1L26 LYSOZYME (T4) MUTANT (P86C) B. MATTHEWS ET AL. 5/89
 1L27 LYSOZYME (T4) MUTANT (P86D) B. MATTHEWS ET AL. 5/89
 1L28 LYSOZYME (T4) MUTANT (P86E) B. MATTHEWS ET AL. 5/89
 1L29 LYSOZYME (T4) MUTANT (P86H) B. MATTHEWS ET AL. 5/89
 1L30 LYSOZYME (T4) MUTANT (P86L) B. MATTHEWS ET AL. 5/89
 1L31 LYSOZYME (T4) MUTANT (P86R) B. MATTHEWS ET AL. 5/89
 1L32 LYSOZYME (T4) MUTANT (P86S) B. MATTHEWS ET AL. 5/89
 1L33 LYSOZYME (T4) MUTANT (V131A) B. MATTHEWS ET AL. 5/89
 1L34 LYSOZYME (T4) MUTANT (R96R) B. MATTHEWS ET AL. 5/89
 1L35 LYSOZYME (T4) MUTANT (C54T, C97A, I9C, L164C) B. MATTHEWS ET AL. 10/89
 1LVD *LYSOZYME (T4 EXPRESSED IN E. COLI) D. ROSE 1/89
 1LYM LYSOZYME (HEN EGG-WHITE, MONOCLINIC) BOGLE, RAO, SUNDARALINGAM 7/82
 1LYZ LYSOZYME (HEN EGG-WHITE, SET W2) R. DIAMOND, D. PHILLIPS 2/75
 2LYZ LYSOZYME (HEN EGG-WHITE, SET R5D) R. DIAMOND, D. PHILLIPS 2/75
 3LYZ LYSOZYME (HEN EGG-WHITE, SET R5A) R. DIAMOND, D. PHILLIPS 2/75
 4LYZ LYSOZYME (HEN EGG-WHITE, SET R5A) R. DIAMOND, D. PHILLIPS 2/75
 5LYZ LYSOZYME (HEN EGG-WHITE, SET R12A) R. DIAMOND, D. PHILLIPS 2/75
 6LYZ LYSOZYME (HEN EGG-WHITE, SET R51F) R. DIAMOND, D. PHILLIPS 2/75
 7LYZ LYSOZYME (HEN EGG-WHITE, TRICLINIC) A. VONKAT 5/77
 8LYZ LYSOZYME (HEN EGG-WHITE, INACTIVATED) S. OATLEY 5/77
 1L2R LYSOZYME (HEN EGG-WHITE, MONOCLINIC) R. ARTYMIUK, BLAKE, RICE, WILSON 8/71 A
 2L2R LYSOZYME (HEN EGG-WHITE, ORTHORHOMBIC) R. ARTYMIUK, BLAKE, RICE, WILSON 6/81 A
 1L2T LYSOZYME (HEN EGG-WHITE, TRICLINIC) HOSODON, BROWN, SIENKER, JENSEN 4/85
 2L2T LYSOZYME (TRICLINIC) RAMANADHAM, SIENKER, JENSEN 9/89
 2LYM LYSOZYME (HEN EGG-WHITE, 1 ATM) C. KUNDROT, F. RICHARDS 5/87
 3LYM LYSOZYME (HEN EGG-WHITE, 1000 ATM) C. KUNDROT, F. RICHARDS 5/87

1L21 LYSOZYME (HUMAN) P. ARTYMIUK, C. BLAKE 10/84
 9LYZ LYSOZYME (HEN, NAM-NAG-NAM SUBSTRATE ONLY) J. KELLY, M. JAMES 12/79
 1L22 LYSOZYME (TURKEY EGG-WHITE) R. BOTT, R. SARMA 9/81 A
 2L22 LYSOZYME (TURKEY) M. PARSONS, S. PHILLIPS 10/88
 2TAA TAKA-AMYLASE KUSUNOKI, MATSUURA, KAKUDO 10/82

HYDROLASE (metallo-carboxypeptidase)

3CPA CARBOXYPEPTIDASE A/GLYCYLTYROSINE D. REES, W. LIPSCOMB 3/82
 5CPA CARBOXYPEPTIDASE A/WATER (BOVINE) D. REES, W. LIPSCOMB 5/82
 4CPA CARBOXYPEPTIDASE A/POTATO INHIBITOR D. REES, W. LIPSCOMB 3/82
 1CPB CARBOXYPEPTIDASE B (BOVINE) M. SCHMID, J. HERRIOTT 6/76 A

HYDROLASE (metalloproteinase)

3TIN THERMOLYSIN (HATFV) B. MATTHEWS, M. HOLMES 2/82
 4TIN THERMOLYSIN (L-LEU-NBOH) B. MATTHEWS, M. HOLMES 2/82
 5TIN THERMOLYSIN (CONH-BH-MALONYL-A-G-N-TROANLD) B. MATTHEWS, M. HOLMES 2/82
 7TIN THERMOLYSIN (CH2O-(N-OR) LEUCOS) B. MATTHEWS, M. HOLMES 1/83
 1TLP THERMOLYSIN/PHOSPHORAMIDON INHIBITORY COMPLEX TRONRUD, MONZINGO, MATTHEWS 6/87
 1TMN THERMOLYSIN/CLT INHIBITOR COMPLEX A. MONZINGO, B. MATTHEWS 6/87
 2TMN THERMOLYSIN/PLN INHIBITOR COMPLEX TRONRUD, MONZINGO, MATTHEWS 6/87
 3TMN THERMOLYSIN/VW INHIBITOR COMPLEX B. HOLDEN, B. MATTHEWS 6/87
 4TMN THERMOLYSIN/ZFP1A INHIBITOR COMPLEX B. MATTHEWS ET AL. 6/87
 5TMN THERMOLYSIN/ZGPLL INHIBITOR COMPLEX B. MATTHEWS ET AL. 6/87
 6TMN THERMOLYSIN/ZGPOLL INHIBITOR COMPLEX TRONRUD, HOLDEN, MATTHEWS 6/87

HYDROLASE (phosphoric diester)

2SN8 STAPHYLOCOCCAL NUCLEASE M. LEGG, F. A. COTTON, E. HAZEN 5/82
 1RNS RIBONUCLEASE A (X-RAY-NEUTRON) BORKARATI, MOSS, PALMER 10/81
 5R5A RIBONUCLEASE A (X-RAY-NEUTRON) A. WLODAMER 4/85
 6R5A RIBONUCLEASE A/URIDINE VANADATE COMPLEX A. WLODAMER, G. GILLILAND 6/88
 7R5A RIBONUCLEASE A (PHOSPHATE-FREE) B. FINZEL ET AL. 8/85
 1RSM LYS 7-DNP-LYS 41 RIBONUCLEASE A B. FINZEL ET AL. 9/87
 1RBB RIBONUCLEASE B (GLYCOSYLATED) WILLIAMS, GREENE, MCPHERSON 9/87
 1RNS RIBONUCLEASE S RIBONUCLEASE S F. RICHARDS 4/73

HYDROLASE (serine proteinase and zymogen)

2ALP ALPHA-LYTIC PROTEASE M. FUJINAGA, M. JAMES 3/85
 1P01 *ALPHA-LYTIC PROTEASE/INHIBITOR R. BONE, D. AGARD 4/89
 1P02 *ALPHA-LYTIC PROTEASE/INHIBITOR R. BONE, D. AGARD 4/89
 1P03 *ALPHA-LYTIC PROTEASE/INHIBITOR R. BONE, D. AGARD 4/89
 1P04 *ALPHA-LYTIC PROTEASE/INHIBITOR R. BONE, D. AGARD 4/89
 1P05 *ALPHA-LYTIC PROTEASE/INHIBITOR R. BONE, D. AGARD 4/89
 1P06 *ALPHA-LYTIC PROTEASE/INHIBITOR R. BONE, D. AGARD 4/89
 1P07 *ALPHA-LYTIC PROTEASE MUTANT (M192A) R. BONE, D. AGARD 4/89
 1P08 *ALPHA-LYTIC PROTEASE MUTANT (M192A)/INBTR B. BONE, D. AGARD 4/89
 1P09 *ALPHA-LYTIC PROTEASE MUTANT (M213A) R. BONE, D. AGARD 4/89
 1P10 *ALPHA-LYTIC PROTEASE MUTANT (M213A)/INBTR B. BONE, D. AGARD 4/89
 2CBA ALPHA-CHYMOTRYPSIN (TOSYL) D. WONG 1/75
 4CHA ALPHA-CHYMOTRYPSIN (BOVINE) H. TSUKADA, D. BLOW 11/84
 5CHA ALPHA-CHYMOTRYPSIN (BOVINE) R. BLEVINS, A. TULINSKY 1/85
 2GCH GAMMA-CHYMOTRYPSIN COHEN, DAVIES, SILVERTON 5/80
 1CGH CHYMOTRYPSINOGEN J. KRAUT, J. BIRKHOFF 3/75
 2CGA CHYMOTRYPSINOGEN A (BOVINE) D. WANG, W. BODE, R. HUBER 1/87
 1RNE ELASTASE (HUMAN NEUTROPHIL) M. NAVIA ET AL. 4/89
 1EST ELASTASE (PORCINE, TOSYL) H. WATSON 5/76
 3EST ELASTASE (PORCINE) E. MEYER ET AL. 9/87
 2SPA KALLIKREIN A (PORCINE) W. BODE, Z. CHEN 5/84
 2SGA PROTEINASE A (STREPTOMYCES GRISEUS) M. JAMES, A. SIELECKI 1/83
 2PRK PROTEINASE K (TRITIRACHIDUM ALBUM LIMBER) B. STEBEL, G. PAL, W. SAENGER 11/87
 3RP2 PROTEINASE II (RAT MAST CELL) D. REININGTON, B. MATTHEWS 9/84
 1SBC SUBTILISIN CARLSBERG S. NEDERHART, G. PETSKO 5/88
 1SST SUBTILISIN BFN (PRIME) J. KRAUT 8/72
 2SST SUBTILISIN NOVO J. DRENTH 9/76
 1TON TONIN (RAT) M. FUJINAGA, M. JAMES 6/87
 3PTB TRYPSIN (BENZAMIDINE INHIBITED) W. BODE, P. SCHMAGER, J. WALTER 9/82
 2FTN TRYPSIN (ORTHOROMBIC, 2.4M (NH4)2SO4) J. WALTER, R. HUBER, W. BODE 10/81
 3PTN TRYPSIN (TRIGONAL, 2.4M (NH4)2SO4) J. WALTER, R. HUBER, W. BODE 10/81
 4FTT TRYPSIN (DIP INHIBITED) CHAMBERS, STROUD, FINER-MOORE 4/88 R
 1TPO TRYPSIN (ORTHOROMBIC) W. BODE, J. WALTER, R. HUBER 9/82
 1TBM TRYPSIN (BOVINE, ORTHORHOMBIC) BARTUNIK, SUMMERS, BARTSCH 7/89
 1TPT TRYPSIN (2-AMIDINO-2-BENZYL-PYRUVATE INHIBIT) J. WALTER, W. BODE, R. HUBER 9/82
 1TRM TRYPSIN (RAT MUTANT (D102H)) SBRAM, STAMMING, FLETTERICK 10/87
 2TRM TRYPSIN (RAT MUTANT (D102H)/BENZAMIDINE R. STROUD, J. FINER-MOORE 4/88
 1SGT TRYPSIN (STREPTOMYCES GRISEUS) R. READ, M. JAMES 4/88
 2TGA TRYPSINOGEN (2.4M MGSO4) J. WALTER, R. HUBER, W. BODE 10/81
 1TGB TRYPSINOGEN (WITH CA, FROM PEG) BOOZ, FEELHAMMER, HUBER 3/79
 1TGC TRYPSINOGEN (.5 CH3OH, .5 H2O) J. WALTER, R. HUBER, W. BODE 10/81
 1TGN TRYPSINOGEN A. KOSIAKOFF, R. STROUD 9/79
 1TGT TRYPSINOGEN (173 K, 7 CH3OH, .3 H2O) J. WALTER, R. HUBER, W. BODE 10/81
 2TGT TRYPSINOGEN (103 K, 7 CH3OH, .3 H2O) J. WALTER, R. HUBER, W. BODE 10/81

COMPLEX (serine proteinase-inhibitor)

1C8O ALPHA-CHYMOTRYPSIN/OVOMUCOID COMPLEX M. JAMES ET AL. 3/88
 6C8A ALPHA-CHYMOTRYPSIN (BOVINE)/PEBA A. TULINSKY, R. BLEVINS 2/87
 2EST ELASTASE-TTAP COMPLEX (PORCINE) L. SIEBER, D. HUGHES 3/86
 2KAI KALLIKREIN A (PORCINE)/FTI (BOVINE) W. BODE, Z. CHEN 5/84
 1SGC PROTEINASE A (STREP. GRISEUS)/CHROMOSTATIN L. DELBECQ, G. BRAYER 4/86
 3SGB PROTEINASE B (STREP. GRISEUS)/OWTKY3 A. SIELECKI ET AL. 1/83
 1CSE SUBTILISIN CARLSBERG/EGLIN COMPLEX W. BODE 6/88
 2SEC SUBTILISIN CARLSBERG/EGLIN COMPLEX C. MCPHALEN, M. JAMES 9/88 R
 1SIC SUBTILISIN BFN (PRIME)/SSI COMPLEX Y. MITSUI ET AL. 4/84 A
 2SNI SUBTILISIN NOVO/CHYMOTRYPSIN INHIBITOR C. MCPHALEN, M. JAMES 9/88 R
 1TEC THERMITASE/EGLIN-C COMPLEX P. GROSS, B. DIJKSTRA, W. BOL 5/89
 1NTP MODIFIED BETA TRYPSIN (NEUTRON) A. KOSIAKOFF 9/87
 2PTC TRYPSIN/TRYP SIN INHIBITOR COMPLEX R. HUBER, J. DEISENHOFER 9/82
 1TFA TRYPSIN (ANHYDRO)/TRYPSIN INHIBITOR R. HUBER, BODE, DEISENHOFER 9/82
 2TGP TRYPSINOGEN/TRYP SIN INHIBITOR R. HUBER ET AL. 9/82
 2TPI TRYPSINOGEN/PFTI/ILE-VAL (MERCURATED) J. WALTER, R. HUBER, W. BODE 10/81
 3TPI TRYPSINOGEN/TRYPSIN INHIBITOR/ILE-VAL R. HUBER ET AL. 9/82
 2GCD TRYPSINOGEN (DIP-INHIBITED, BOVINE) M. JONES, R. STROUD 3/86
 1TGS TRYPSINOGEN/PSTI R. HUBER ET AL. 9/82
 4TPI TRYPSINOGEN/ARG-15-PTI/VAL-VAL W. BODE, J. WALTER 6/85

HYDROLASE (sulphydryl proteinase)

2ACT ACTINIDIN E. BAKER 11/79
 1PAD PAPAINE (ACE-ALA-ALA-PRE-ALA, CYS-25) J. DRENTH 11/76
 2PAD PAPAINE (CYS DERIV OF CYS-25) J. DRENTH 11/76
 4PAD PAPAINE (TOS-LYS, CYS-25) J. DRENTH 11/76
 5PAD PAPAINE (BOXY-GLY-PRE-GLY, CYS-25) J. DRENTH 11/76
 6PAD PAPAINE (BOXY-PRE-ALA, CYS-25) J. DRENTH 11/76
 9PAD PAPAINE (OXIDIZED CYS 25) I. KAMPHUIS, J. DRENTH 3/86
 1FPD PAPAINE J. JANSONIUS 10/84

HYDROLASE (transpeptidase)

1PTI D-ALANYL-CARBOXYPEPTIDASE-TRANSEPTIDASE J. KELLY, J. KNOX, P. MOEWS 10/85 A

ISOMERASE

1XIA D-KYLOSE ISOMERASE (ARTHEROBACTER) D. BLOW 2/88 A
 2XIA D-KYLOSE ISOMERASE (S. RUBIGINOSUS) H. CARRELL 5/88 A
 3XIA KYLOSE ISOMERASE (STREP. OLIVOCHEMOCGENES) G. FARBER, G. PETSKO 2/89
 4XIA D-KYLOSE ISOMERASE/SORBITOL K. HENRICK, C. COLLYER, D. BLOW 6/89
 5XIA D-KYLOSE ISOMERASE/XYLITOL K. HENRICK, C. COLLYER, D. BLOW 6/89
 1FPI GLUCOSE-6-PHOSPHATE ISOMERASE H. MURHEAD 7/77 A
 1TMI TRIOSE PHOSPHATE ISOMERASE I. WILSON, D. PHILLIPS 9/76
LIGASE (amide synthetase)
 2GLS GLUTAMINE SYNTHETASE (S. TYPHIMURIUM) D. EISENBERG ET AL. 5/89
LIGASE (synthetase)
 1T51 TYROSYL TRANSFER RNA SYNTHETASE BRAT, BLOW, BRICK, NYBORG 7/82 A
 2T51 TYROSYL TRNA SYNTHETASE P. BRICK, T. BRAT, D. BLOW 6/89
 3T51 TYROSYL TRNA SYNTHETASE/TYROSINYL ADNYLTP. BRICK, T. BRAT, D. BLOW 6/89
 4T51 TYROSYL TRNA SYNTHETASE MUTANT P. BRICK, T. BRAT, D. BLOW 6/89
LYASE (non-add)
 2CAB CARBONIC ANHYDRASE B (HUMAN) K. KANNAN 10/83
 1CA2 CARBONIC ANHYDRASE II (HUMAN) ERIKSSON, JONES, LILJAS 2/89
 2CA2 CARBONIC ANHYDRASE II/SCN (HUMAN) ERIKSSON, JONES, LILJAS 2/89

1ER1	ENDOTHAPEPSIN/BM624 COMPLEX	COOPER, FOUNDLING, BLUNDELL	10/89	P	R2RR1SF	RHINOVIRUS/ANTIVIRAL AGENT 1R	COMPLEX	M.ROSSMANN ET AL.	10/88	S
1ER2	ENDOTHAPEPSIN/CP-69,799 COMPLEX	T.BLUNDELL ET AL.	10/89	P	R2RS1SF	RHINOVIRUS/ANTIVIRAL AGENT 1S	COMPLEX	M.ROSSMANN ET AL.	10/88	S
1ER3	ENDOTHAPEPSIN/CP-71,362 COMPLEX	T.BLUNDELL ET AL.	10/89	P	R2RM2SF	RHINOVIRUS/ANTIVIRAL AGENT 2	COMPLEX	M.ROSSMANN ET AL.	10/88	S
1ER4	ENDOTHAPEPSIN/B-142 COMPLEX	T.BLUNDELL ET AL.	10/89	P	R2RS3SF	RHINOVIRUS/ANTIVIRAL AGENT 3S	COMPLEX	M.ROSSMANN ET AL.	10/88	S
1ER5	ENDOTHAPEPSIN/B-189 COMPLEX	T.BLUNDELL ET AL.	10/89	P	R2R04SF	RHINOVIRUS/ANTIVIRAL AGENT 4	COMPLEX	M.ROSSMANN ET AL.	10/88	S
1ER6	ENDOTHAPEPSIN/B-256 COMPLEX	T.BLUNDELL ET AL.	10/89	P	R2R05SF	RHINOVIRUS/ANTIVIRAL AGENT 5	COMPLEX	M.ROSSMANN ET AL.	10/88	S
1ER7	ENDOTHAPEPSIN/B-261 COMPLEX	T.BLUNDELL ET AL.	10/89	P	R2R06SF	RHINOVIRUS/ANTIVIRAL AGENT 6	COMPLEX	M.ROSSMANN ET AL.	10/88	S
1ER8	ENDOTHAPEPSIN/B-77 COMPLEX	T.BLUNDELL ET AL.	10/89	P	R2R07SF	RHINOVIRUS/ANTIVIRAL AGENT 7	COMPLEX	M.ROSSMANN ET AL.	10/88	S
1ER9	ENDOTHAPEPSIN/L-363,564 COMPLEX	T.BLUNDELL ET AL.	10/89	P	R1R08SF	RHINOVIRUS/ANTIVIRAL AGENT 8	COMPLEX	M.ROSSMANN ET AL.	10/88	S
1ER0	ENDOTHAPEPSIN/L-364,099 COMPLEX	T.BLUNDELL ET AL.	10/89	P						
2ER1	ENDOTHAPEPSIN/PD125967 COMPLEX	QUAIL, COOPER, BLUNDELL	10/89	P						
2ER2	ENDOTHAPEPSIN/PEPSTATIN COMPLEX	T.BLUNDELL ET AL.	10/89	P						
2FXB	*FERREDOXIN (B.THERMOPROTEOLYTICUS)	FUKUYAMA, TSUKIHARA, KATSUBE	2/90	RP						
1FCB	*FLAVODOXIN (B.ZEAF)	F.S.MATHEWS, S.-K.XIA	1/90	P						
1FCR	*FLAVODOXIN (CHONDRUS CRISPUS)	K.FUKUYAMA	2/90	P						
2C8F	D-GALACTOSE-BINDING PROTEIN (E.COLI)	H.VYAS, M.VYAS, F.QUICOCHO	2/89	N						
3G8P	*GALACTOSE-BINDING PROTEIN	S.MOMBAY	1/90	RP						
1G8G	*GLUTAMINYL-TRNA SYNTHETASE/GLUTAMINE-TRNAT	S.STEITS ET AL.	4/90	AP						
4GR1	*GLUTATHIONE REDUCTASE/RETRO-GSSG	G.SCHULL, W.JANES	3/90	P						
1Q4A	GRAMICIDIN A (BACILLUS BREVIS)	D.LANGS	8/88	P						
2Q4A	GRAMICIDIN A	B.WALLACE, K.RAVIKUMAR	10/89	P						
2HMG	HAEMAGGLUTININ	D.WILEY	9/89	RP						
3HMG	HAEMAGGLUTININ	D.WILEY	9/89	P						
4HMG	HAEMAGGLUTININ	D.WILEY	9/89	P						
5HMG	HAEMAGGLUTININ	D.WILEY	9/89	P						
1THB	*HEMOGLOBIN (HUMAN, T STATE, PARTIALLY OXY)	D.WALLER, R.LIDDINGTON	1/90	P						
1NH1	*HEMOGLOBIN (ALPHA-NICKEL, BETA-FERROUS)	B.LUJST, B.LIDDINGTON	3/90	P						
1SDH	*HEMOGLOBIN (SCAPHARCA, DIMERIC)	ROYER, HENDRICKSON, CHIANCONI	10/89	P						
2HPV	*HIV-1 PROTEIN/PEPSTATIN COMPLEX	P.TITZER ET AL.	4/90	P						
2PH8	P-HYDROXYBENZOATE HYDROXYLASE/ADP	VAN DER LAAN, DREWEH, BCL	4/89	P						
4FAB	IMMUNOGLOBULIN 4-4-20 FAB/FLUORESCEN	A.EDMUNDSON ET AL.	4/89	P						
1MCW	IGG1 LIGHT CHAIN DIMER (MCG-WEIR HYBRID)	K.ELY, J.HERRON, A.EDMUNDSON	5/89	P						
2MCG	IMMUNOGLOBULIN B-J INTACT MCG (ORTHERMBC)	K.ELY, J.HERRON, A.EDMUNDSON	5/89	P						
3MCG	IMMUNOGLOBULIN B-J INTACT MCG (TRIGONAL)	K.ELY, J.HERRON, A.EDMUNDSON	5/89	RP						
2FBJ	IGA FAB (KAPPA) J539	T.BEAT, E.PADLAN, D.DAVIES	8/89	RP						
4MCG	IGG B-J MCG/BIS-DINITROPHENYLISINE	EDMUNDSON, ELY, HE, HERRON	1/90	P						
5MCG	IGG B-J MCG/BETA-CASOMORPHIN-7	EDMUNDSON, ELY, HERRON, CHESON	1/90	P						
6MCG	IGG B-J MCG/MET-ENKEPHALINYL-ARG-B-PHE-	EDMUNDSON, ELY, HERRON, CHESON	1/90	P						
7MCG	IGG B-J MCG/BIS-DINITROPHENYLISINE	EDMUNDSON, ELY, HE, HERRON	1/90	P						
11LA	*INTERLEUKIN 1A (HUMAN)	B.GRAVES, M.HATADA	11/89	AP						
11LB	*INTERLEUKIN 8 (HMR, AVERAGED STRUCTURE)	G.CLORE, A.GRONENBORN	3/90	P						
21LB	*INTERLEUKIN 8 (HMR, 30 STRUCTURES)	G.CLORE, A.GRONENBORN	3/90	P						
3ICD	ISOCITRATE DEHYDROGENASE	HURLEY, HOSLAND, STROUD	12/89	P						
4ICD	ISOCITRATE DEHYDROGENASE (PHOSPHORYLATED)	HURLEY, HOSLAND, STROUD	12/89	P						
2BLM	*ISOTA-LACTAMASE (B.LICHENIFORMIS)	P.MORNS, J.KNOX, O.DIDBERG	2/90	AP						
1ML1	MUCONOLACTONE ISOMERASE (P.PUTIDA)	S.KATTI, B.KATZ, E.WYCKOFF	11/89	AP						
1MBW	MYOGLOBIN	G.PHILLIPS	10/89	P						
2MB5	MYOGLOBIN	B.SCHOENBORN, X.CHENG	10/89	RP						
1MM1	*MYOGLOBIN MUTANT (K45R, C110A) (HUMAN)	S.HUBBARD	3/90	P						
1CMD	*ONCOMOULIN (RAT)	F.AHMED ET AL.	4/90	E						
1DPA	PAP D	A.BOLMGREN, C.-I.BRANDEN	12/89	H						
1PHS	*PHASEOLIN (FRENCH BEAN)	M.LAWRENCE ET AL.	3/90	AP						
7PCY	CU-II PLASTOCYANIN	COLLYER, GUSS, FREEMAN	9/89	P						
1FNP	PURINE NUCLEOSIDE PHOSPHORYLASE (HUMAN)	S.EALICK ET AL.	11/89	AP						
4P21	*P-RAS P21 PROTEIN/GDP	S.-H.KIM	3/90	AP						
5P21	*P-HARVEY-RAS P21 PROTEIN/GPPNP	PAL MITTINGHOFFER, KABSCZ	4/90	P						
2OR1	R1-65 (PHAGE 434)/OR1 COMPLEX	AGGARWAL, ANDERS, HARRISON	9/89	P						
1REN	RENIN	A.SIELECKI ET AL.	10/89	H						
1R8P	*RETINOL-BINDING PROTEIN (HUMAN)	JONES, NEMCOER, COMAN	4/90	P						
2R83	RIBONUCLEASE A (BOVINE)	HOWLIN, MOSS, HARRIS, PALMER	8/89	RP						
8R5A	RIBONUCLEASE A/D	J.NACHEMAN, A.WLODAMER	8/89	P						
9R5A	RIBONUCLEASE A/DU	J.NACHEMAN, A.WLODAMER	8/89	P						
4RNT	*RIBONUCLEASE T1 MUTANT (H2A)	M.SAENGER, G.KOELLNER	2/90	P						
1RMA	*RNA (U (A) 6A)	A.DOCK-BREGEON	2/90	P						
6RXN	RUBREDOXIN (DESULFOVIBRIO DESULFURICANS)	STENKAMP, SIEKER, JENSEN	1/90	P						
4SGB	SGPB/PCI	GREENBLATT, RYAN, JAMES	9/89	P						
1SNC	STAPH NUCLEASE/CA2+/PDTF	P.LOLL, E.LATTMAN	7/89	P						
1SNM	*STAPH NUCLEASE MUTANT (E43D)	P.LOLL, E.LATTMAN	2/90	P						
1S01	SUBTILISIN BFN MUTANT	M.WHITLOW, A.BOWARD, J.WOOD	8/89	H						
1S72	*SUBTILISIN (BFOK)	R.BOYD ET AL.	3/90	P						
1SDP	*FE SUPEROXIDE DISMUTASE (PSEUDOMONAS OVALIS)	J.STODDARD, RINGE, PETSKO	2/90	P						
2SDP	*FE SUPEROXIDE DISMUTASE/AIIDE	STODDARD, RINGE, PETSKO	2/90	P						
3TAA	*TAKA-AMYLASE (ASPERGILLUS ORYZAE)	H.SMITH ET AL.	3/90	AP						
1TRX	THIOREDOXIN (REDUCED, NMR, 12 STRUCTURES)	P.WRIGHT ET AL.	1/90	P						
2TRX	*THIOREDOXIN (ESCHERICHIA COLI)	KATTI, LEMASTER, EKUND	3/90	P						
1TMS	*THYMIDYLATE SYNTHETASE	J.FINER-MOORE	4/90	RP						
1TSC	*THYMIDYLATE SYNTHETASE COMPLEX	J.FINER-MOORE	4/90	RP						
5TRA	*TRANSFER RNA (YEAST, SER)	A.DOCK-BREGEON	2/90	P						
1TGL	*TRICYCLYLGLYCEROL LIPASE	VANDIEPEN, DEREWENDA ET AL.	2/90	AP						
1YPI	TRIOSE PHOSPHATE ISOMERASE (YEAST)	T.ALBER, E.LOLIS, G.G.PETSKO	1/90	P						
2YPI	TIM (YEAST) / 2-PROSPHOGYLLATE	T.ALBER, E.LOLIS, G.G.PETSKO	1/90	P						
7PTI	*TRYPSIN INHIBITOR MUTANT (C30A, C15A)	EIGENBROT, RANDAL, KOSSIAKFF	3/90	P						
1ETI	TRYPSIN INHIBITOR EETI II (NMR)	B.CASTRO ET AL.	1/90	P						
1TRC	TRIC FRAGMENT OF CALMODULIN	L.S.JOLIN ET AL.	1/90	P						
1BHV	BEAN POD MOTTLE VIRUS	J.JOHNSON	10/89	N						
1RIA	RHINOVIRUS 1A	M.ROSSMANN ET AL.	12/88	N						
1RNF	ZINC FINGER (NMR)	P.WRIGHT	9/89	P						
2ZNF	*ZINC FINGER (NMR, 16 STRUCTURES)	SUMMERS, SOUTE, KIM, BARE	3/90	P						
1APD	APOLIPOPROTEIN D (HUMAN) MODEL	M.PEITTSCH, M.BOGUSKI	12/89	P						
1CP1	CYTOTOXIC CELL PROTEASE 1 MODEL	M.MURPHY, M.JAMES	12/89	P						
4ZNA	*DNA (2, GCAGCCGCGCCGCGCCG) MODEL	A.ANSEVIN, A.WANG	4/90	P						
1HF1	HANNUKA FACTOR MODEL	M.MURPHY, M.JAMES	12/89	P						
R4APRSF	ACID PROTEASE (R.PEPSIN) / INHIBITOR	K.SUGUNA, D.DAVIES	8/89	S						
R5APRSF	ACID PROTEASE (R.PEPSIN) / INHIBITOR	K.SUGUNA, D.DAVIES	8/89	S						
R6APRSF	ACID PROTEASE (R.PEPSIN) / INHIBITOR	K.SUGUNA, D.DAVIES	8/89	S						
R4CPVSF	CARP PARVALBUMIN	KUMAR, LEE, EDWARDS	10/89	S						
R1BDNSF	DNA (CCCAAAAAGCCG)	T.STEITS ET AL.	4/89	S						
R2BDNSF	DNA (CCCAAAAAGCCG, BROMINATED)	D.COURSEILLE ET AL.	3/90	S						
R1BDNSF	*DNA (GACCTACT)	G.PRIVE, R.DICKERSON	3/90	S						
R5BDNSF	*DNA (CCACACTTGG)	G.PRIVE, R.DICKERSON	3/90	S						
R4ESTSF	ELASTASE/DIPLUOROKETONE INHIBITR COMPLEX	E.MEYER JR. ET AL.	5/89	SH						
R5ESTSF	ELASTASE/BORONIC ACID INHIBITOR COMPLEX	E.MEYER JR. ET AL.	5/89	SH						
R3EBKSF	ERABUTOXIN B (SEA SNAKE)	B.LOW ET AL.	1/88	SH						
R1FCRSF	*FLAVODOXIN (CHONDRUS CRISPUS)	K.FUKUYAMA	2/90	S						
R4GR1SF	*GLUTATHIONE REDUCTASE/RETRO-GSSG	G.SCHULL, W.JANES	3/90	S						
R1THBSF	*HEMOGLOBIN (HUMAN, T STATE, PARTIALLY OXY)	D.WALLER, R.LIDDINGTON	1/90	S						
R1SDHSF	*HEMOGLOBIN (SCAPHARCA, DIMERIC)	W.ROYER ET AL.	10/89	S						
R2FBJSF	IGA FAB (KAPPA) J539	BEAT, PADLAN, DAVIES	8/89	S						
R8LDBSF	AP0-M4-LACTATE DEHYDROGENASE/CITRATE	M.ROSSMANN ET AL.	1/88	S						
R7LDBSF	LACTATE DEHYDROGENASE COMPLEXES	M.ROSSMANN ET AL.	1/88	S						
R6LDBSF	AP0-M4-LACTATE DEHYDROGENASE (DOG FISH)	M.ROSSMANN ET AL.	11/87	S						
R1LDBSF	LACTATE DEHYDROGENASE/NADH/OXIMATE (DOG F)	J.GRIFFITH, M.ROSSMANN	11/87	S						
R1MCHSF	MACROCRONIN	P.VAN ROEY	9/89	S						
R2NB5SF	MYOGLOBIN	B.SCHOENBORN, X.CHENG	10/89	S						
R1M1SF	*MYOGLOBIN MUTANT (K45R, C110A) (HUMAN)	S.HUBBARD	3/90	S						
R7PCYSF	CU-II PLASTOCYANIN	COLLYER, GUSS, FREEMAN	9/89	S						
R2PRKSF	PROTEINASE K (TRITIRACHUM ALBUM LIMBER)	BETZEL, PAL, SAENGER	11/87	SH						
R1PNPSF	PURINE NUCLEOSIDE PHOSPHORYLASE (HUMAN)	S.EALICK ET AL.	11/89	H						
R1SNCFS	STAPH NUCLEASE/CA2+/PDTF	P.LOLL, E.LATTMAN	7/89	S						
R1SNMFS	*STAPH NUCLEASE MUTANT (E43D)	P.LOLL, E.LATTMAN	2/90	S						
R1TRCSF	TRIC FRAGMENT OF CALMODULIN	L.S.JOLIN ET AL.	1/90	S						
R1BMVSF	BEAN POD MOTTLE VIRUS	J.JOHNSON	10/89	S						
R1RIASF	RHINOVIRUS 1A	M.ROSSMANN ET AL.	12/88	S						
R1RMUSF	RHINOVIRUS MUTANT ((1)C199Y)	M.ROSSMANN ET AL.	10/88	S						
R2RMUSF	RHINOVIRUS MUTANT ((1)V188L)	M.ROSSMANN ET AL.	10/88							

ORPL RIBOSOMAL PROTEIN L30
 ORIC RICIN (RCAI1)
 OCSB STREPTAVIDIN-BIOTIN COMPLEX
 OST1 SUBTILISIN (BAS)
 OST2 SUBTILISIN (BASOX) (PEROXIDE-OXIDIZED)
 OSBP SULFATE-BINDING PROTEIN
 OSDE FE-SUPEROXIDE DISMUTASE (ESCHERICHIA COLI)
 OSDP FE-SUPEROXIDE DISMUTASE (PSEUDOMONAS OVALIS)
 OSDM MN-SUPEROXIDE DISMUTASE (THERMUS THERMOPHILUS)
 OTMT THERMITASE
 OTEC THERMITASE-EGLIN C COMPLEX
 OTLL THERMOLYSIN (BACILLUS THERMOPROTEOLYTICUS) COMPLEX WITH P-LEU-NH2
 OTT4 THIOREDOXIN (BACTERIOPHAGE T4)
 OFMT INITIATOR TRANSFER RNA (E. COLI, F/MET)
 OTR1 TRANSFER RNA (YEAST, PHE)
 OMTS METHIONYL TRANSFER RNA SYNTHETASE
 OTFD TRANSFERRIN (DIFERRIC)
 OTMD TRIMETHYLAMINE DEHYDROGENASE
 OYPI TRIOSE PHOSPHATE ISOMERASE (SACCHAROMYCES CEREVISIAE)
 OTRO TRP REPRESSOR-OPERATOR COMPLEX
 OTTI BETA TRYPSIN-TRYPSIN INHIBITOR I
 OAD2 ADENOVIRUS TYPE 2 HEXON (AD2)
 OTHV VIRUS PROTEIN DISK (TOBACCO MOSAIC)

REVDAT	10	15-APR-90	LINSI	3	OBSLTE
REVDAT	5	15-APR-90	IPEPD	2	OBSLTE
REVDAT	5	15-APR-90	1SN3D	2	CONNECT
REVDAT	2	15-APR-90	2CGAA	1	JRNL
REVDAT	2	15-APR-90	1ALCA	1	HET
REVDAT	3	15-APR-90	1HFMB	1	COMPND
REVDAT	2	15-APR-90	1HLAA	1	REMARK
REVDAT	3	15-APR-90	1RVFP	1	SITE
REVDAT	2	15-APR-90	1L04A	3	AICM
REVDAT	2	15-APR-90	1LDMA	1	FORMUL
REVDAT	2	15-APR-90	2CA2A	1	FORMUL
REVDAT	4	15-APR-90	2BFLC	1	COMPND
REVDAT	4	15-APR-90	2HFMC	1	COMPND
REVDAT	3	15-APR-90	2LDBB	1	FORMUL
REVDAT	2	15-APR-90	2MEVA	1	FORMUL
REVDAT	2	15-APR-90	3CA2A	3	COMPND REMARK HET FORMUL
REVDAT	2				HETATM CONNECT
REVDAT	5	15-APR-90	3ESTD	3	ATOM

THE FOLLOWING DATA SETS HAVE BEEN REPLACED

	OLD ENTRY	NEW ENTRY
OBSLTE	15-APR-90 LINS	4INS
OBSLTE	15-APR-90 IPEP	4PEP

* NEW OR REPLACEMENT ENTRY SINCE JAN-1990 NEWSLETTER

TABLE 8. CORRECTIONS TO COORDINATE ENTRIES AND PROGRAMS

 15-APR-1990

CORRECTIONS TO ENTRIES MAY BE OBTAINED IN ONE OF TWO WAYS -

A. ORDER CORR29FI. THERE IS NO CHARGE FOR THIS MICROFICHE WHICH CONTAINS A LISTING OF ALL CORRECTIONS APPLIED IN THE LAST THREE MONTHS.

B. ORDER A NEW COPY OF DATAPRP.

THE FOLLOWING DATA SETS HAVE HAD CORRECTIONS APPLIED. PLEASE CONSULT A COPY OF THE PROTEIN DATA BANK ATOMIC COORDINATE AND BIBLIOGRAPHIC ENTRY FORMAT DESCRIPTION FOR A FULL DESCRIPTION OF REVDAT RECORDS.

Name	Date
Address	Telephone
	Electronic Mail
	FAX Number

Check or written purchase order must be made payable to Brookhaven National Laboratory (see Entering an Order)

Items to be ordered (prices are valid until September 30, 1990)

MAGNETIC TAPE items from Table 1:					
DATAPRTP (includes all coordinate entries)					
	6250 cpi	1600 cpi	TK50	60 Mbyte	150 Mbyte
VAX/VMS BACKUP	<input type="checkbox"/> \$294	<input type="checkbox"/> \$410	<input type="checkbox"/> \$380		
VAX/VMS COPY	<input type="checkbox"/> \$294	<input type="checkbox"/> \$410	<input type="checkbox"/> \$380		
Unlabelled ASCII	<input type="checkbox"/> \$294	<input type="checkbox"/> \$410			
Unlabelled EBCDIC	<input type="checkbox"/> \$294	<input type="checkbox"/> \$410			
IRIS cartridge TAR tape				<input type="checkbox"/> \$391	<input type="checkbox"/> \$323
PDBPGMTP					
VAX/VMS COPY	<input type="checkbox"/> \$294	<input type="checkbox"/> \$294	<input type="checkbox"/> \$317		
STRUCTURE FACTOR TAPES each tape ordered costs \$294					
<input type="checkbox"/> NONST1TP	<input type="checkbox"/> NONST2TP	<input type="checkbox"/> NONST3TP	<input type="checkbox"/> NONST4TP		
<input type="checkbox"/> NONST5TP	<input type="checkbox"/> NONST6TP	<input type="checkbox"/> NONST7TP			
Choose one format for STRUCTURE FACTOR tapes					
Unlabelled ASCII	<input type="checkbox"/> 6250 cpi	<input type="checkbox"/> 1600 cpi			
Unlabelled EBCDIC	<input type="checkbox"/> 6250 cpi	<input type="checkbox"/> 1600 cpi			
MICROFICHE items (from Table 2). Each microfiche item costs \$380, postage included. Correction fiche are free.					
List Items requested:					
PRINTED LISTINGS . Each entry costs \$85, postage included.					
IDENT Code(s) (from Table 5) requested:					

Please total all the charges applicable to this order. All prices are expected to be valid through September 30, 1990. After that date please confirm prices.

Bank charges (\$40 if check not in U.S. dollars drawn on U.S. bank, otherwise no charge)	
Foreign air mail charges (charge of \$19 per tape item mailed outside U.S. and Canada)	
Magnetic tape charges:	
Microfiche charges:	
Printed listing charges:	
TOTAL COST:	

(continued on the next page)

DOCUMENTATION desired (no charge)

- Introduction to the Protein Data Bank (January 1990)
- Latest Newsletter
- Atomic Coordinate and Bibliographic Entry Format Description for DATAPRTP and DATAPRFI (March 1989)
- Current DATAPRTP Directory
- Sources of Visual Aids for Macromolecular Structure (January 1989)
- Non-Standard Entries (Structure Factors) Format Description
- Data Deposition Form

SPECIAL ORDER items (described in Table 1) requested. Please inquire at Brookhaven for availability and price.

YEAR89TP
PART90TP
BENDERTP

CONECTTP
DGPLOTP
DIHDRLTP

DSTNCETP
FISIPLTP
PHIPSITP

ENTERING AN ORDER:

- Brookhaven **requires the following before service is provided**

- Check or purchase order payable to **BROOKHAVEN NATIONAL LABORATORY**
- Completed Order Form
- Self Addressed Label

If using facsimile, the original order form and purchase order or check must also be sent to Brookhaven by mail.

- Please send the required items to

BROOKHAVEN NATIONAL LABORATORY
Chemistry Department - Bldg. 555
Ms. F. C. Bernstein
Upton, New York 11973 USA

Telephone: 516-282-4382
Facsimile: 516-282-5815

To ensure proper handling, it is advisable for users to send an additional copy of this order form directly to Brookhaven; experience shows that purchasing departments often do not forward a copy of the order form.
