Altogether, 31 new atomic coordinate entries are available with the current release (see Table 5), including the structure of the photosynthetic reaction center (1PRC) from R. viridis, the work of 1988 Nobel Laureates Hans Deisenhofer, Robert Huber and Hartmut Michel. The past year has seen the addition of approximately 100 new entries to the PDB.

The new DATAPRTP release includes the entry 1BDS, the first structure derived from solution NMR measurements to be distributed by the PDB. Other such entries that have been deposited are currently being processed (see Table 6). To accommodate differences between these data and those derived from diffraction measurements, a number of new PDB record types will be instituted. (Details will be provided in a subsequent revision of the Protein Data Bank Atomic Coordinate and Bibliographic Entry Format Description document.) Under the methodologies used to refine structures from NMR, a number of models normally are generated which are consistent with the experimental data. All such models for which coordinates are deposited will be included in one single PDB entry, delineated by new record types MODEL and ENDMDL which will carry a unique model ID number. If an "average" structure is designated by the depositors, this will be placed in a separate entry. In addition, it is proposed to add to all entries a record type EXPDTA, with a field to describe the primary data from which the model has been derived (e.g., FIBER DIFFRACTION, NEUTRON DIFFRACTION, NMR, THEORETICAL MODEL, X-RAY DIFFRACTION).

While developing the scheme outlined above to accommodate NMR-based structures to the PDB format, we are also in the process of evaluating a number of format upgrades or extensions. Suggestions along these lines will be welcome, and should be sent to Enrique Abola.

The PDB has an opening for a Postdoctoral Research Associate, as described on the enclosed blue sheet. Interested applicants should contact Enrique Abola.

We are pleased to announce that the CAOS/CAMM Center, the Dutch National Facility for Computer-Assisted Chemistry, has joined existing on-line DATAPRTP distributors as on-line distributor serving the Dutch chemical research community through SURFnet. A complete list of on-line distributors is given below:

CAN/SND, Canadian Scientific Numeric Data Base Service, Ottawa
contact Roger Gough, telephone 613-933-3294, e-mail CANSND@NRCVM01

CAOS/CAMM, Dutch National Facility for Computer-Assisted Chemistry, Nijmegen
contact Jan Noordik, telephone 0031-080-613386, e-mail CAOS@HNYKUN52

EMBL, European Molecular Biology Laboratory, Heidelberg, FRG
contact Peter Rice, telephone 0049-6221-387-241, e-mail RICE@EMBL

Pittsburgh Supercomputing Center
contact Hugh Nicholas, telephone 412-268-4960, e-mail NICHOLAS@CPWPSCA

The established Protein Data Bank centers continue to provide their full range of services. Inquiries may be addressed as shown below. Please note that the order form on pages 7-8 should be used only for Brookhaven orders; users in Japan or Australia should contact their centers for detailed information.

Area	Address of Center	BITNET (BNL Only)	Name	Phone
Worldwide except Australia and Japan	Protein Data Bank Chemistry Department Brookhaven National Laboratory Upton, NY 11973 USA	PDB@BNLCHM ABOLA@BNLCHM BERNSTEIN@BNLCHM KOETZLE@BNLCHM WENG@BNLCHM	Inquiries E. E. Abola F. C. Bernstein P. A. Esposito T. F. Koetzle J. C. Weng	516-282-4382 516-282-4383 516-282-4382 516-282-4382 516-282-4384 516-282-3629
Australia	CSIRO Division of Biotechnology 343 Royal Parade, Parkville Victoria 3052, Australia		P. Davis	03-342-4326
Japan	Institute for Protein Research Osaka University Yamadaoka, 3-2 Suita, Osaka 565, Japan		Y. Katsube	(06) 877-5111 ext. 3912

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

09-JAN-89

CODE	ITEM	AVAILABILITY USA	JAP	AUS
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	X
YEAR88TP	NEW OR REVISED COORDINATE ENTRIES FOR 1988	X		
PART89TP	NEW OR REVISED COORDINATE ENTRIES FOR 1989 (TO DATE)	X		
PDBPGMTP	COMPUTER PROGRAMS AND MISCELLANEOUS FILES (TABLE 3, PARTS A AND B)	X		
NONST1TP	STRUCTURE FACTOR HOLDINGS (TABLE 4 - PART 1)	X	X	
NONST2TP	STRUCTURE FACTOR HOLDINGS (TABLE 4 - PART 2)	X	X	
NONST3TP	STRUCTURE FACTOR HOLDINGS (TABLE 4 - PART 3)	X	X	
NONST4TP	STRUCTURE FACTOR HOLDINGS (TABLE 4 - PART 4)	X	X	
NONST5TP	STRUCTURE FACTOR HOLDINGS (TABLE 4 - PART 5)	X	X	
NONST6TP	STRUCTURE FACTOR HOLDINGS (TABLE 4 - PART 6)	X	X	
NONST7TP	STRUCTURE FACTOR HOLDINGS (TABLE 4 - PART 7)	X	X	
BENDERTP	PARAMETERS FOR BENT-WIRE MODELS	X		
BLDKITTP	MODEL BUILDER'S KIT	PLEASE INQUIRE AT US CENTER		
CONECTTP	CONNECTIVITY SPECIFICATIONS FOR ALL ATOMS	X		
DGPLOTTP	DIAGONAL PLOTS (LINE PRINTER)	X		
DIHDRLTP	COMPLETE TORSION ANGLES	X		
DSTNCETP	CONNECTIVITY SPECIFICATIONS WITH DISTANCES	X		
FISIPLTP	PHI/PSI PLOTS (LINE PRINTER)	X		
PHIPSITP	LISTS OF PHI/PSI/OMEGA VALUES	X		

* NEW OR REPLACEMENT ENTRY SINCE OCT-88 NEWSLETTER

TABLE 2. PROTEIN DATA BANK, INFORMATION AVAILABLE ON MICROFICHE

09-JAN-89

CODE	ITEM	AVAILABILITY USA	JAP	AUS
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	
YEAR88FI	NEW OR REVISED COORDINATE ENTRIES FOR 1988	X		
PART89FI	NEW OR REVISED COORDINATE ENTRIES FOR 1989 (TO DATE)	X		
CORR24FI	*LIST OF CORRECTIONS NO. 24 (OCT/88 - JAN/89)	X	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		
CONECTFI	CONNECTIVITY SPECIFICATIONS FOR ALL ATOMS	X		
DGPLOTFI	DIAGONAL PLOTS (LINE PRINTER)	X		
DIHDRLFI	COMPLETE TORSION ANGLES	X		
DSTNCEFI	CONNECTIVITY SPECIFICATIONS WITH DISTANCES	X		
FISIPLFI	PHI/PSI PLOTS (LINE PRINTER)	X		
PHIPSIFI	LISTS OF PHI/PSI/OMEGA VALUES	X		

* NEW OR REPLACEMENT ENTRY SINCE OCT-88 NEWSLETTER

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

09-JAN-89

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
BRUKTP	MAKE VAX/VMS FILES FROM PDB TAPE	H.BOSSHARD	8/85	NO
CONECT	GENERATE FULL CONNECTIVITY	F.BERNSTEIN	8/82	YES
CONTCT	INTERMOLECULAR CONTACTS	L.ANDREWS	5/83	NO
DGPLOT	DIAGONAL PLOTS ON PRINTER	E.SWANSON,F.BERNSTEIN	1/83	YES
DIHDRL	COMPLETE TORSION ANGLES	E.ABOLA	3/80	YES
DRCTRY	DIRECTORY OF PDB DISTRIBUTION TAPE	E.ABOLA	7/86	YES
DSTNCE	CALC DISTANCES FROM CONECT RECORDS	F.BERNSTEIN	8/82	YES
FISIPL	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	6/88	NO
PHIPSI	MAIN-CHAIN TORSION ANGLES	ANDREWS,WILLIAMS,BERNSTEIN	2/79	YES
REFMTE	REFORMAT DATA FOR SUPERTAB,SUPERB	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
THEOD	MEASURE COORDINATES WITH THEODOLITE	L.LEBIODA	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				
ALB	SECONDARY STRUCT. CALC., PREDICTION	A.FINKELSTEIN,O.PTITSYN	10/85	NO
CRYSTAL	DATA BASE - PROTEIN CRYSTALLIZATION	G.GILLILAND	12/84	NO
TABLES	DISPLAY SPACE-GROUP SYMMETRY IN 3D	C.ABAD-ZAPATERO,T.O'DONNELL	12/87	NO

* NEW OR REPLACEMENT ENTRY SINCE OCT-88 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

09-JAN-89

IDENT CODE	MOLECULE	DEPOSITOR	DATE/ CODE	
PART 1 - AVAILABLE ON NONST1TP, NONST1FI				
R1ACTSF	ACTINIDIN	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.MATHEWS	12/77	SF
R3CYTSF	CYTOCHROME C (ALBACORE, OXIDIZED)	T.TAKANO,R.DICKERSON	7/80	SF
R4CYTSF	CYTOCHROME C (ALBACORE, REDUCED)	T.TAKANO,R.DICKERSON	7/80	SF
RCYC5501	CYTOCHROME C550	R.TIMKOVICH	4/76	SF
R1ZNASF	DNA(Z(PRIME),CGCG,HIGH-SALT,SYNTHETIC)	H.DREW,R.DICKERSON	1/81	SF
R1BNASF	DNA(B,CGCGAATTCGCG,SYNTHETIC,290 K)	H.DREW,R.DICKERSON	1/81	SF
RGPD04	GLYCERALDEHYDE-3-P-DEHYDROGENASE(LOBSTR)	M.ROSSMANN	8/75	SF
R2GPDSF	APO-GLYCERALDEHYDE-3-P-DEHYDROGENASE	M.ROSSMANN	12/79	SF
R2MBBSF	HEMOGLOBIN (HORSE, AQUO MET AND CO)	LADNER,HEIDNER,PERUTZ	6/80	SF
R1FDHSF	HEMOGLOBIN (HUMAN, FETAL, DEOXY)	J.FRIER	6/80	SF
RHUMDEH02	HEMOGLOBIN (HUMAN, DEOXY)	M.PERUTZ,G.FERMI	5/75	SF
LAMPRY1	HEMOGLOBIN (LAMPREY)	HENDRICKSON,LOVE,KARLE	5/73	SF
RLDH06	LACTATE DEHYDROGENASE	M.ROSSMANN	8/75	SF
RLDH07	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, MONOCLINIC)	C.BLAKE,D.RICE	6/81	SF
R2LZHSF	LYSOZYME (HEN EGG-WHITE, ORTHORHOMBIC)	C.BLAKE,D.RICE	6/81	SF
RMETMYSF1	MYOGLOBIN (SPERM WHALE, MET)	T.TAKANO	6/76	SF
RDEMYSF1	MYOGLOBIN (SPERM WHALE, DEOXY)	T.TAKANO	6/76	SF
R4TNASF	TRANSFER RNA (YEAST, PHE)	A.JACK,J.LADNER,A.KLUG	6/80	SF
PART 2 - AVAILABLE ON NONST2TP, NONST2FI				
R1CCRSF	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-IODO-CCGG) SPACE GROUP P 43 21 2	B.CONNER,R.DICKERSON	6/82	SF
R1ANAP2	DNA(A,D-IODO-CCGG) SPACE GROUP P 21	B.CONNER,R.DICKERSON	6/82	SF
R2BNASF	DNA(B,CGCGAATTCGCG,SYNTHETIC,16 K)	H.DREW,R.DICKERSON	11/81	SF
R3BNASF	DNA(B,9-BR-CGCGAATTCGCG,20 DEG C)	KOPKA,FRATINI,DICKERSON	2/82	SF
R4BNASF	DNA(B,9-BR-CGCGAATTCGCG, 7 DEG C)	KOPKA,FRATINI,DICKERSON	2/82	SF
R5BNASF	DNA(B,CGCGAATTCGCG,SYNTHETIC)/CISPLATIN	WING,PJURA,DREW,DCKRSN	8/83	SF
R1GAASF	GLUTAMINASE-ASPARAGINASE(ACINETOBACTER)	H.AMMON	12/82	SF
R1GASSF	GLUTAMINASE-ASPARAGINASE(PSEUDOMONAS 7A)	H.AMMON	12/82	SF
R1EMQSF	HEMERYTHRIN(MET)	STENKAMP,SIEKER,JENSEN	2/83	SF
R1EMZSF	HEMERYTHRIN(AZIDO,MET)	STENKAMP,SIEKER,JENSEN	2/83	SF
R2INSSF	INSULIN(BOVINE,2-ZINC)DES-PHE B1	C.REYNOLDS,G.DODSON	5/82	SF
R1LH1SF	LEGHEMOGLOBIN(ACETATE MET)	VAINSHTEIN,HARUTYUNYAN	4/82	SF
R2LH1SF	LEGHEMOGLOBIN(ACETATE MET)	VAINSHTEIN,HARUTYUNYAN	4/82	SF
R1LH2SF	LEGHEMOGLOBIN(AQUO MET)	VAINSHTEIN,HARUTYUNYAN	4/82	SF
R2LH2SF	LEGHEMOGLOBIN(AQUO MET)	VAINSHTEIN,HARUTYUNYAN	4/82	SF
R1LH3SF	LEGHEMOGLOBIN(CYANO MET)	VAINSHTEIN,HARUTYUNYAN	4/82	SF
R2LH3SF	LEGHEMOGLOBIN(CYANO MET)	VAINSHTEIN,HARUTYUNYAN	4/82	SF
R1LH4SF	LEGHEMOGLOBIN(DEOXY)	VAINSHTEIN,HARUTYUNYAN	4/82	SF
R2LH4SF	LEGHEMOGLOBIN(DEOXY)	VAINSHTEIN,HARUTYUNYAN	4/82	SF
R1LH5SF	LEGHEMOGLOBIN(FLUORO MET)	VAINSHTEIN,HARUTYUNYAN	4/82	SF
R2LH5SF	LEGHEMOGLOBIN(FLUORO MET)	VAINSHTEIN,HARUTYUNYAN	4/82	SF
R1LH6SF	LEGHEMOGLOBIN(NICOTINATE MET)	VAINSHTEIN,HARUTYUNYAN	4/82	SF
R2LH6SF	LEGHEMOGLOBIN(NICOTINATE MET)	VAINSHTEIN,HARUTYUNYAN	4/82	SF
R1LH7SFR	LEGHEMOGLOBIN(FERRO)/NITROSOBENZENE	VAINSHTEIN,HARUTYUNYAN	2/83	SF
R2LH7SF	LEGHEMOGLOBIN(FERRO)/NITROSOBENZENE	VAINSHTEIN,HARUTYUNYAN	4/82	SF
R1LYMSF	LYSOZYME(HEN EGG-WHITE,MONOCLINIC)	HOGLE,RAO,SUNDARALINGAM	7/82	SF
R1MLTSF	MELITTIN	TERWILLIGER,EISENBERG	8/81	SF
R1OVOSF	OVOMUCOID FRAGMENT(JAPANESE QUAIL)	E.PAPAMOKOS,R.HUBER	1/82	SF
R2BP2SF	PROPHOSPHOLIPASE A2 (BOVINE)	DIJKSTRA,ROL,DRENTH	9/81	SF
R1PYPSF	INORGANIC PYROPHOSPHATASE	E.HARUTYUNYAN ET AL.	2/83	SF
R1RN3SF	RIBONUCLEASE A	BORKAKOTI,MOSS,PALMER	6/82	SF
R3TLNSF	THERMOLYSIN(NATIVE)	B.MATTHEWS,H.HOLMES	2/82	SF
R2PTNSF	TRYPSIN(ORTHORHOMBIC,2.4M (NH4)2SO4)	J.WALTER,R.HUBER	10/81	SF
R1TPOSF	TRYPSIN(ORTHORHOMBIC)	BODE,WALTER,HUBER	9/82	SF
R3PTNSF	TRYPSIN(TRIGONAL,2.4M (NH4)2SO4)	J.WALTER,R.HUBER	10/81	SF
R3PTBSF	TRYPSIN(BENZAMIDINE INHIBITED)	BODE,SCHWAGER,WALTER	9/82	SF
R1TPPSF	TRYPSIN/P-AMIDINO-PHENYL-PYRUVATE	WALTER,BODE,HUBER	9/82	SF
R4PTISF	TRYPSIN INHIBITOR(BOVINE,PANCREAS)	R.HUBER,J.DEISENHOFER	9/82	SF
R2PTCSF	TRYPSIN/TRYPSIN INHIBITOR COMPLEX	R.HUBER,J.DEISENHOFER	9/82	SF
R1TPASF	TRYPSIN(ANHYDRO)/TRYPSIN INHIBITOR	HUBER,BODE,DEISENHOFER	9/82	SF
R2TGASF	TRYPSINOGEN(2.4M MGSO4)	J.WALTER,R.HUBER	10/81	SF
R1TGCSF	TRYPSINOGEN(.5 CH3OH,.5 HOH)	J.WALTER,R.HUBER	10/81	SF
R1TGTSF	TRYPSINOGEN(173 K,.7 CH3OH,.3 HOH)	J.WALTER,R.HUBER	10/81	SF
R2TGTSF	TRYPSINOGEN(103 K,.7 CH3OH,.3 HOH)	J.WALTER,R.HUBER	10/81	SF
R2TGPSF	TRYPSINOGEN/TRYPSIN INHIBITOR	R.HUBER ET AL.	9/82	SF
R3TPISF	TRYPSINOGEN/TRYPSIN INHIBITOR/ILE-VAL	R.HUBER ET AL.	9/82	SF
R2TPISF	TRYPSINOGEN/PTI/ILE-VAL (MERCURATED)	J.WALTER,R.HUBER	10/81	SF
R1TGSSF	TRYPSINOGEN/PSTI	R.HUBER ET AL.	9/82	SF
PART 3 - AVAILABLE ON NONST3TP, NONST3FI				
R1CATSF	CATALASE(BEEF LIVER)	M.ROSSMANN	11/81	SF
R4CHASF	ALPHA-CHYMOTRYPSIN(BOVINE)	H.TSUKADA,D.BLOW	11/84	SF
R2GCHSF	GAMMA-CHYMOTRYPSIN	COHEN,DAVIES,SILVERTON	7/84	SF
R2C2CSF	CYTOCHROME C2(OXIDIZED)	BHATIA,FINZEL,KRAUT	11/83	SF
R3C2CSF	CYTOCHROME C2(REDUCED)	BHATIA,FINZEL,KRAUT	11/83	SF
R2ANASF	DNA(A,GGGGCCCC,SYNTHETIC)	MCCALL,BROWN,KENNARD	8/85	SF
R6BNASF	DNA(B,CGCGAATTCGCG,SYNTHETIC)/NETROPSIN	M.KOPKA,R.DICKERSON	8/84	SF
R7BNASF	DNA(B,CGCGAATTCGCG,ANISO TEMP FACTORS)	HOLBROOK,DICKERSON,KIM	1/85	SF
R1FX1SF	FLAVODOXIN(D.VULGARIS,UNREFINED)	WATENPAUGH,SIEKR,JENSN	10/84	SF
R1GP1SF	GLUTATHIONE PEROXIDASE(BOVINE)	O.EPP,R.LADENSTEIN	6/85	SF
R2HBBSF	HEMOGLOBIN(HUMAN,DEOXY)	G.FERMI,M.PERUTZ	3/84	SF
R1HBOSF	HEMOGLOBIN(HUMAN,OXY)	B.SHAANAN	3/84	SF
R1HCPSF	IGA FAB(KAPPA)MCPC603	G.COHEN ET AL.	7/84	SF
R2HCPSF	IGA FAB(KAPPA)MCPC603/PHOSPHOCHOLINE	PADLAN,COHEN,DAVIES	10/84	SF
R1PFCSF	IGG PFC FRAGMENT	S.BRYANT ET AL.	4/85	SF
R1LZTSF	LYSOZYME(HEN EGG-WHITE,TRICLINIC)	HDSON,BRWN,SIEKR,JENSN	4/85	SF
R1MBOSF	MYOGLOBIN(SPERM WHALE,OXY)	S.PHILLIPS	3/84	SF
R2OVOSF	OVOMUCOID THIRD DOMAIN(SILVER PHEASANT)	M.BODE,O.EPP	6/85	SF
R1PPDSF	PAPAIN D	J.JANSONIUS	10/84	SF
R3RP2SF	PROTEINASE II(RAT MAST CELL)	S.REMINGTON,B.MATTHEWS	9/84	SF
R5PTISFX	PTI(X-RAY)	A.WLODAWER,R.HUBER	10/84	SF
R5PTISFN	PTI(NEUTRON)	A.WLODAWER,R.HUBER	10/84	SF
R5RSASFX	RIBONUCLEASE A(X-RAY)	A.WLODAWER	6/85	SF
R5RSASFN	RIBONUCLEASE A(NEUTRON)	A.WLODAWER	6/85	SF
R5RXNSF	RUBREDOXIN(C.PASTEURIANUM)	WATENPAUGH,SIEKR,JENSN	10/84	SF
R2VSBSF	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 NONST4TP, NONST4FI				
R2APRSF	RHIZOPUSPEPSIN(ACID PROTEINASE)	K.SUGUNA,D.DAVIES	3/87	SF
R3WGASF	AGGLUTININ(WHEAT GERM, ISOLECTIN 2)	C.WRIGHT	8/86	SF
R2AZASF	AZURIN(ALCALIGENES DENITRIFICANS)	E.BAKER,G.NORRIS	10/86	SF
R3ICBSF	CALCIUM-BINDING PROTEIN(INTESTINAL)	D.SZEBENYI,K.MOFFAT	9/86	SF
R2CCYSF	CYTOCHROME C(PRIME)	B.FINZEL ET AL.	8/85	SF
R2CYPSF	CYTOCHROME C PEROXIDASE(YEAST)	FINZEL,POULOS,KRAUT	8/85	SF
R6BNASF	DNA(CGCGAATTCGCG,SYNTHETC)/HOECHST 33258	P.PJURA,R.DICKERSON	8/86	SF
R1DN4SF	DNA(-BR-CG-BR-CG-BR-CG,SYNTHTC,10 DEG C)	D.MORAS ET AL.	12/86	SF
R1DN5SF	DNA(-BR-CG-BR-CG-BR-CG,SYNTHTC,37 DEG C)	D.MORAS ET AL.	12/86	SF
R1RSMSF	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
R2MHRSF	MYOHEMERYTHRIN	SHERIFF,HENDRICKSON	4/87	SF
R1RNTSF	RIBONUCLEASE T1/GUANYLIC ACID COMPLEX	W.SAENGER ET AL.	7/87	SF
R9TNASF	TRANSFER RNA(YEAST,ASP)	WESTHOF,DUMAS,MORAS	10/85	SF
R6PTISF	TRYPSIN INHIBITOR(FORM III,BOVINE)	A.WLODAWER	5/87	SF
R1VP1SF	POLYOMA VIRUS CAPSID	RAYMENT,BAKER,CASPAR	3/83	SF
PART 5 - AVAILABLE ON NONST5TP, NONST5FI				
R1MEVSF	MENGO VIRUS	M.ROSSMANN	2/87	SF
PART 6 - AVAILABLE ON NONST6TP, NONST6FI				
R3APRSF	ACID PROTEINASE/PEPTIDE INHIBITOR COMPLX	K.SUGUNA,D.DAVIES	6/87	SF
R9DNASF	DNA(A,GCCCGGGC,SYNTHETIC)	U.HEINEMANN	7/88	SF
R1DN8SF	*DNA(CGCGAATTCGCG)-HOECHST 33258 COMPLEX	A.WANG ET AL.	2/88	SF
R3DNBSF	*DNA(CCAAGATTGG)	G.PRIVE,R.DICKERSON	3/88	SF
R1D16SF	*DNA(CGCGCGTTTTCGCGCGCG)	R.DICKERSON ET AL.	4/88	SF
R3ANASF	*DNA(A,GGGATCCC,SYNTHETIC)	U.HEINEMANN,H.LAUBLE	7/88	SF
R3ESTSF	ELASTASE(PORCINE)	E.MEYER ET AL.	9/87	SF
R3INSSF	*INSULIN(PORCINE,XRAY+NEUTRON)	A.WLODAWER,H.SAVAGE	10/88	SF
R1PFKSF	*PHOSPHOFRUCTOKINASE(E. COLI)-F6P-ADM/MG	Y.SHIRAKIHARA,P.EVANS	1/88	SF

R2PFKSF	*PHOSPHOFRUCTOKINASE(E. COLI)	Y.SHIRAKIHARA,P.EVANS	1/88	SF
R3PFKSF	*PHOSPHOFRUCTOKINASE(B. ST.)	P.EVANS,P.HUDSON	1/88	SF
R4PFKSF	*PHOSPHOFRUCTOKINASE(B. ST.)	P.EVANS,P.HUDSON	1/88	SF
R5PFKSF	*PHOSPHOFRUCTOKINASE(B. ST.) T-STATE	EVANS,FARRANTS,LAWRENCE	1/88	SF
R1PAZSF	PSEUDOAZURIN(ALCALIGENES FAECALIS)	PETRATOS,DAUTER,WILSON	6/88	SF
R7RSASF	RIBONUCLEASE A(PHOSPHATE-FREE)	A.WLODAWER,G.GILLILAND	6/88	SF
R4RHVSFA	RHINOVIRUS 14(HUMAN)	E.ARNOLD,M.ROSSMANN	8/87	SF
R4RHVSFB	RHINOVIRUS 14(HUMAN)5MM KAU(CN)2 DERIV	E.ARNOLD,M.ROSSMANN	8/87	SF
R4RHVSFC	RHINOVIRUS 14(HUMAN)1MM KAU(CN)2 DERIV	E.ARNOLD,M.ROSSMANN	8/87	SF

PART 7 - AVAILABLE ON NONST7TP, NONST7FI

R1PRCSF	*PHOTOSYNTHETIC REACTION CENTER	J.DEISENHOFER ET AL.	2/88	SF

* NEW OR REPLACEMENT ENTRY SINCE OCT-88 NEWSLETTER

CODES

SF STRUCTURE FACTORS

TABLE 5. PROTEIN DATA BANK, ATOMIC COORDINATE HOLDINGS

09-JAN-89

IDENT CODE	MOLECULE	DEPOSITOR(S)	DATE/ STATUS	
4APE	ACID PROTEINASE(ENDOTHIA PARASITICA)	T.BLUNDELL	6/86	
2APP	ACID PROTEINASE(PENICILLIUMJANTHINELLUM)	A.SIELECKI,M.JAMES	1/83	
2APR	ACID PROTEINASE(RHIZOPUS CHINENSIS)	K.SUGUNA,D.DAVIES	3/87	R
3APR	ACID PROTEINASE/PEPTIDE INHIBITOR COMPLX	K.SUGUNA,D.DAVIES	6/87	
2ACT	ACTINIDIN	E.BAKER	11/79	
1ACX	ACTINOXANTHIN	V.PLETNEV,A.KUZIN	12/82	
3ADK	ADENYLATE KINASE(PORCINE)	G.SCHULZ	11/87	R
1AGA	AGAROSE	S.ARNOTT	5/78	
3WGA	AGGLUTININ(WHEAT GERM,ISOLECTIN 2)	C.WRIGHT	3/86	
1AMT	ALAMETHICIN(TRICHODERMA VIRIDE)	R.FOX,F.RICHARDS	12/87	
4ADH	ALCOHOL DEHYDROGENASE(APO)	C.-I.BRANDEN	8/79	
5ADH	ALCOHOL DEHYDROGENASE(APO)/ADP-RIBOSE	H.EKLUND,T.A.JONES	1/84	
6ADH	ALCOHOL DEHYDROGENASE(HOLO)/NADH/DMSO	H.EKLUND	1/84	
7ADH	ALCOHOL DEHYDRGNSE(ISONICOTINIMIDYLATED)	B.PLAPP,H.EKLUND	1/84	
2ALP	ALPHA-LYTIC PROTEASE	M.FUJINAGA,M.JAMES	3/85	
2TAA	TAKA-AMYLASE	KUSUNOKI,MATSUURA,KAKUDO	10/82	
5API	ALPHA 1-ANTITRYPSIN(MODIFIED,TETRAGONAL)	R.HUBER ET AL.	10/84	
6API	ALPHA 1-ANTITRYPSIN(MODIFIED,HEXAGONAL)	R.HUBER ET AL.	10/84	
1ABP	L-ARABINOSE-BINDING PROTEIN	F.QUIOCHO,G.GILLILAND	5/80	
1AAT	CYTOSOLIC ASPARTATE AMINOTRANSFERASE	HARUTYUNYAN,MALASHKEVICH	4/82	A
2ATC	ASPARTATE CARBAMOYLTRANSFERASE	W.LIPSCOMB	3/82	
4ATC	ASPARTATE CARBAMOYLTRANSFERASE	W.LIPSCOMB	4/84	
7ATC	ASPARTATE CARBAMOYLTRANSFERASE/CTP	R.HONZATKO,W.LIPSCOMB	5/87	R
2AZA	AZURIN(ALCALIGENES DENITRIFICANS)	E.BAKER,G.NORRIS	10/86	
1AZU	AZURIN(PSEUDOMONAS AERUGINOSA)	E.ADMAN,L.SIEKER,L.JENSEN	8/80	
3BCL	BACTERIOCHLOROPHYLL A PROTEIN	TRONRUD,SCHMID,MATTHEWS	6/87	R
1BDS	*BDS-I(SEA ANEMONE)(NMR MIN AVRGD STRUCT)	G.M.CLORE,A.GRONENBORN	11/88	
2ABX	ALPHA-BUNGAROTOXIN	R.LOVE,R.STROUD	2/86	
1CPV	CALCIUM-BINDING PARVALBUMIN SET 6A	R.KRETSINGER	8/74	
2CPV	CALCIUM-BINDING PARVALBUMIN SET 6H	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	
3CLN	CALMODULIN(RAT)	Y.BABU,C.BUGG,W.COOK	5/88	R
1CAP	CAPSULAR POLYSACCHARIDE(E. COLI M41)	S.ARNOTT	5/78	
2CAB	CARBONIC ANHYDRASE B(HUMAN)	K.KANNAN	10/83	
1CAC	CARBONIC ANHYDRASE C(HUMAN)	K.KANNAN	5/76	
3CPA	CARBOXYPEPTIDASE A/GLYCYLTYROSINE	D.REES,W.LIPSCOMB	3/82	
4CPA	CARBOXYPEPTIDASE A/POTATO INHIBITOR	D.REES,W.LIPSCOMB	3/82	
5CPA	CARBOXYPEPTIDASE A/WATER(BOVINE)	D.REES,W.LIPSCOMB	5/82	
1CPB	CARBOXYPEPTIDASE B(BOVINE)	M.SCHMID,J.HERRIOTT	6/76	A
1PTE	D-ALANYL-CARBOXYPEPTIDASE-TRANSPEPTIDASE	J.KELLY,J.KNOX,F.MOEWS	10/85	A
1CAR	CARRAGEENAN	S.ARNOTT	5/78	
7CAT	CATALASE(BEEF LIVER)	I.FITA,M.ROSSMANN	11/84	
8CAT	CATALASE(BEEF LIVER)	I.FITA,M.ROSSMANN	11/84	
4CAT	CATALASE(PENICILLIUM VITALE)	B.VAINSHTEIN ET AL.	2/83	B
1C4S	CHONDROITIN-4-SULFATE	S.ARNOTT	5/78	
2C4S	CHONDROITIN-4-SULFATE(CA SALT)	S.ARNOTT	5/78	
2CHA	ALPHA-CHYMOTRYPSIN(TOSYL)	D.BLOW	1/75	
4CHA	ALPHA-CHYMOTRYPSIN(BOVINE)	H.TSUKADA,D.BLOW	11/84	
5CHA	ALPHA-CHYMOTRYPSIN(BOVINE)	R.BLEVINS,A.TULINSKY	1/85	
6CHA	ALPHA-CHYMOTRYPSIN(BOVINE)/PEBA	A.TULINSKY,R.BLEVINS	2/87	
1CHO	ALPHA-CHYMOTRYPSIN/OVOMUCOID COMPLEX	M.JAMES ET AL.	3/88	
2GCH	GAMMA-CHYMOTRYPSIN	COHEN,DAVIES,SILVERTON	5/80	
2CI2	CHYMOTRYPSIN INHIBITOR 2(BARLEY SEEDS)	C.MCPHALEN,M.JAMES	9/88	R
1CHG	CHYMOTRYPSINOGEN	J.KRAUT,J.BIRKTOFT	3/75	
2CGA	CHYMOTRYPSINOGEN A(BOVINE)	D.WANG,W.BODE,R.HUBER	1/87	
1CTS	CITRATE SYNTHASE(PIG)	REMINGTON,WIEGAND,HUBER	1/84	
2CTS	CITRATE SYNTHASE(PIG,COA,CITRATE CMPLX)	REMINGTON,WIEGAND,HUBER	1/84	
3CTS	CITRATE SYNTHASE(CHICKEN,COA,CITRATE)	REMINGTON,WIEGAND,HUBER	1/84	
4CTS	CITRATE SYNTHASE(PIG,OXALOACETATE CMPLX)	REMINGTON,WIEGAND,HUBER	1/84	
1CTX	ALPHA COBRATOXIN	W.SAENGER,H.WALKINSHAW	3/82	
2CNA	CONCANAVALIN A	G.REEKE,J.BECKER,G.EDELMAN	4/75	
3CNA	CONCANAVALIN A	K.HARDMAN	9/76	
1CN1	CONCANAVALIN A(DEMETALLIZED)	M.SHOHAM	12/81	
1CRN	CRAMBIN	W.HENDRICKSON,M.TEETER	5/81	
1CRO	CRO REPRESSOR PROTEIN	B.MATTHEWS ET AL.	6/87	A
1GCR	GAMMA-II CRYSTALLIN(CALF)	T.BLUNDELL	8/85	
1CBP	CUCUMBER BASIC PROTEIN	J.M.GUSS	9/88	A
2B5C	CYTOCHROME B5(OXIDIZED)	F.S.MATHEWS	12/77	
156B	CYTOCHROME B562(E.COLI,OXIDIZED)	BETHGE,CZERWINSKI,MATHEWS	8/79	
3CYT	CYTOCHROME C(ALBACORE,OXIDIZED)	T.TAKANO,R.DICKERSON	7/80	
4CYT	CYTOCHROME C(ALBACORE,REDUCED)	T.TAKANO,R.DICKERSON	7/80	
1CYC	CYTOCHROME C(BONITO,HEART)	M.KAKUDO	8/76	
1CCR	CYTOCHROME C(RICE)	H.OCHI,N.TANAKA	3/83	
2CCY	CYTOCHROME C(PRIME)	B.FINZEL ET AL.	8/85	
2CYP	CYTOCHROME C PEROXIDASE(YEAST)	B.FINZEL,T.POULOS,J.KRAUT	8/85	
2C2C	CYTOCHROME C2(OXIDIZED)	G.BHATIA,B.FINZEL,J.KRAUT	11/83	
3C2C	CYTOCHROME C2(REDUCED)	G.BHATIA,B.FINZEL,J.KRAUT	11/83	
1CY3	CYTOCHROME C3	R.HASER,M.FREY,F.PAYAN	6/85	
2CDV	CYTOCHROME C3(DESULFOVIBRIO VULGARIS)	N.YASUOKA,M.KAKUDO	11/83	
1CC5	CYTOCHROME C5(OXIDIZED,AZOTOBACTER VNLD)	C.D.STOUT,D.CARTER	8/84	
155C	CYTOCHROME C550	R.TIMKOVICH	8/76	
351C	CYTOCHROME C551(OXIDIZED)	MATSUURA,TAKANO,DICKERSON	7/81	
451C	CYTOCHROME C551(REDUCED)	MATSUURA,TAKANO,DICKERSON	7/81	
2CPP	CYTOCHROME P450CAM(PSEUDOMONAS PUTIDA)	T.POULOS,B.FINZEL,A.HOWARD	4/87	R
3DFR	DIHYDROFOLATE REDUCTASE(L. CASEI)	J.BOLIN,D.MATTHEWS,J.KRAUT	6/82	
4DFR	DIHYDROFOLATE REDUCTASE(E. COLI)	J.BOLIN,D.MATTHEWS,J.KRAUT	6/82	
1ANA	DNA(A,5(PRIME)-D-IODO-CCGG-3(PRIME))	B.CONNER,R.DICKERSON	6/82	
2ANA	DNA(A,GGGGCCCC,SYNTHETIC)	M.MCCALL,T.BROWN,O.KENNARD	8/85	
9DNA	DNA(A,GCCCGGGC,SYNTHETIC)	U.HEINEMANN	7/87	
1BNA	DNA(B,CGCGAATTCGCG,SYNTHETIC,290 K)	R.DREW,R.DICKERSON	1/81	
2BNA	DNA(B,CGCGAATTCGCG,SYNTHETIC,16 K)	R.DREW,R.DICKERSON	11/81	
3BNA	DNA(B,9-BR-CGCGAATTCGCG,SYNTH,20 DEG C)	KOPKA,FRATINI,DICKERSON	2/82	
4BNA	DNA(B,9-BR-CGCGAATTCGCG,SYNTH, 7 DEG C)	KOPKA,FRATINI,DICKERSON	2/82	
5BNA	DNA(B,CGCGAATTCGCG,SYNTHETIC)/CISPLATIN	WING,PJURA,DREW,DICKERSON	8/83	
6BNA	DNA(B,9-BR-CGCGAATTCGCG,SYNTH)/NETROPSIN	M.KOPKA,R.DICKERSON	8/84	
7BNA	DNA(B,CGCGAATTCGCG,ANISO TEMP FACTORS)	HOLBROOK,DICKERSON,KIM	1/85	
8BNA	DNA(CGCGAATTCGCG,SYNTHTC)/HOECHST 33258	PJURA,GRZESKOWIAK,DICKERSN	8/86	
12NA	DNA(Z(PRIME),CGCG,HIGH-SALT,SYNTHETIC)	R.DREW,R.DICKERSON	1/81	
1DN4	DNA(-BR-CG-BR-CG-BR-CG,SYNTHTC,18 DEG C)	D.MORAS ET AL.	12/86	
1DN5	DNA(-BR-CG-BR-CG-BR-CG,SYNTHTC,37 DEG C)	D.MORAS ET AL.	12/86	
1DN6	DNA(GGATGGGAG,SYNTHETIC)	MCCALL,BROWN,HUNTER,KENNRD	5/87	
1DN8	DNA(CGTACGTACG,SYNTHETIC)	M.SUNDARALINGAM	5/87	
2DND	*DNA(CGCCAAATTTGCG)-DISTAMYCIN COMPLEX	M.COLL,A.RICH	8/88	
1DNH	*DNA(CGCGAATTCGCG)-HOECHST 33258 COMPLEX	A.WANG ET AL.	2/88	
3DNB	*DNA(CCAAGATTGG)	G.PRIVE,R.DICKERSON	3/88	
1D16	*DNA(CGCGCGTTTTCGCGCG)	CHATTOPADHYAYA,DICKERSON	4/88	
3ANA	*DNA(A,GGGATCCC,SYNTHETIC)	U.HEINEMANN,H.LAUBLE	7/88	
1DCG	*DNA(CGCGCG)	C.FREDERICK,A.WANG ET AL.	8/88	
2DCG	*DNA(CGCGCG)/SPERMINE	A.WANG,A.RICH ET AL.	8/88	
4DNB	*DNA(CGCGAATTCGCG)	C.FREDERICK,A.RICH ET AL.	8/88	
1DNE	*DNA(CGCGATATCGCG)/NETROPSIN	M.COLL ET AL.	9/88	
1DPI	DNA POLYMERASE I(KLENOW FRAGMENT)	L.BEESE,D.OLLIS,T.STEITZ	8/87	A
2GN5	GENE-5 DNA BINDING PROTEIN	G.BRAYER,A.MCPHERSON	1/86	
1EST	ELASTASE(PORCINE,TOSYL)	E.WATSON	5/76	
2EST	ELASTASE-TFAP COMPLEX(PORCINE)	L.SIEKER,D.HUGHES	3/86	
3EST	ELASTASE(PORCINE)	E.MEYER ET AL.	9/87	
1EFM	ELONGATION FACTOR TU(TRYPSIN-MODIFIED)	F.JURNAK	5/87	A
1ETU	ELONGATION FACTOR TU(DOMAIN I)/GDP CMPLX	T.LA COUR ET AL.	1/88	
1ENL	ENOLASE(YEAST)	L.LEBIODA,B.STEC	3/88	A
3EBX	ERABUTOXIN B(SEA SNAKE)	B.LOW ET AL.	1/88	R
1ECD	ERYTHROCRUORIN(REDUCED,DEOXY)	W.STEIGEMANN,E.WEBER	3/79	
1ECO	ERYTHROCRUORIN(CARBONMONOXY)	W.STEIGEMANN,E.WEBER	3/79	
1ECA	ERYTHROCRUORIN(AQUO,MET)	W.STEIGEMANN,E.WEBER	3/79	
1ECN	ERYTHROCRUORIN(CYANO,MET)	W.STEIGEMANN,E.WEBER	3/79	
4FD1	FERREDOXIN(AZOTOBACTER VINELANDII)	C.D.STOUT	6/88	R
1FXB	FERREDOXIN(B.THERMOPROTEOLYTICUS)	FUKUYAMA,TSUKIHARA,KATSUBE	6/88	
1FDX	FERREDOXIN(PEPTOCOCCUS AEROGENES)	E.ADMAN,L.SIEKER,L.JENSEN	8/76	
3FXC	FERREDOXIN(SPIRULINA PLATENSIS)	TSUKIHARA,KATSUBE,KAKUDO	12/81	
3FXN	FLAVODOXIN(CLOSTRIDIUM MP,OXIDIZED)	M.LUDWIG	12/77	
4FXN	FLAVODOXIN(CLOSTRIDIUM MP,SEMIQUINONE)	M.LUDWIG	12/77	
1FX1	FLAVODOXIN(D.VULGARIS,UNREFINED)	WATENPAUGH,SIEKER,JENSEN	10/84	
1GSP	GALACTOSE-BINDING PROTEIN	S.MOWBRAY,G.PETSKO	8/83	A
3GAP	CATABOLITE GENE ACTIVATOR PROTEIN/CAMP	I.WEBER,T.STEITZ	4/87	R
1GCN	GLUCAGON	T.BLUNDELL	10/77	
1PGI	GLUCOSE-6-PHOSPHATE ISOMERASE	R.MUIRHEAD	7/77	A
1GP1	GLUTATHIONE PEROXIDASE(BOVINE)	O.EPP,R.LADENSTEIN	6/85	
3GRS	GLUTATHIONE REDUCTASE(OXIDIZED,HUMAN)	G.SCHULZ,A.KARPLUS	2/88	R
1GD1	HOLO-GPD(BACILLUS STEAROTHERMOPHILUS)	SKARZYNSKI,MOODY,MONACOTT	6/87	
1GPD	GLYCERALDEHYDE-3-P-DEHYDROGENASE(LOBSTR)	M.ROSSMANN	7/75	
2GPD	APO-GLYCERALDEHYDE-3-P-DEHYDRGNSE(LBSTR)	M.ROSSMANN	12/79	
3GPD	GLYCERALDEHYDE-3-P-DEHYDROGENASE(HUMAN)	H.WATSON,J.CAMPBELL	6/83	
1HMG	HAEMAGGLUTININ(INFLUENZA VIRUS)	D.WILEY	6/86	
1HAB	HEMERYTHRIN B	W.HENDRICKSON	6/76	A
1HMQ	HEMERYTHRIN(MET)	STENKAMP,SIEKER,JENSEN	2/83	
1HMZ	HEMERYTHRIN(AZIDO,MET)	STENKAMP,SIEKER,JENSEN	2/83	
1HR3	HEMERYTHRIN(AZIDO,MET,SIPHONOSOMA)	SMITH,HENDRICKSON,ADDISON	5/83	
1HDS	HEMOGLOBIN(DEER, SICKLE CELL)	E.AMMA,R.GIRLING	10/79	
2MHB	HEMOGLOBIN(HORSE,AQUO MET)	R.LADNER,HEIDNER,PERUTZ	2/77	
2DHB	HEMOGLOBIN(HORSE,DEOXY)	M.PERUTZ,G.FERMI	11/73	
2HHB	HEMOGLOBIN(HUMAN,DEOXY)	G.FERMI,M.PERUTZ	3/84	
3HHB	HEMOGLOBIN(HUMAN,DEOXY,SYMMETRY AVRGD)	G.FERMI,M.PERUTZ	3/84	
4HHB	HEMOGLOBIN(HUMAN,DEOXY,UNRESTRAINED)	G.FERMI,M.PERUTZ	3/84	
1HCO	HEMOGLOBIN(HUMAN,CARBONMONOXY)	J.BALDWIN	8/79	
2HCO	HEMOGLOBIN(HUMAN,CARBONMONOXY,NRG REFND)	J.BALDWIN	8/79	
1HHO	HEMOGLOBIN(HUMAN,OXY)	B.SHAANAN	6/83	
1FDH	HEMOGLOBIN(HUMAN,FETAL,DEOXY)	J.FRIER	8/76	
1HBS	HEMOGLOBIN S(HUMAN,SICKLE CELL)	E.PADLAN,W.LOVE	6/82	
2LHB	HEMOGLOBIN V(CYANO,MET,SEA LAMPREY)	HONZATKO,HENDRICKSON,LOVE	8/85	
2YHX	HEXOKINASE (YEAST) FORM PII	STEITZ,ANDERSON,STENKAMP	3/78	
1HKG	HEXOKINASE A - GLUCOSE COMPLEX(YEAST)	W.BENNETT JR.,T.STEITZ	12/80	
1HIP	HIGH POTENTIAL IRON PROTEIN	J.KRAUT	4/75	
1HLA	HISTOCOMPATIBILITY ANTIGEN A2(HUMAN)	D.WILEY ET AL.	10/87	A
1HYA	HYALURONIC ACID(NA SALT, 3-FOLD HELIX)	S.ARNOTT	11/77	
2HYA	HYALURONIC ACID(NA SALT, 4-FOLD HELIX)	S.ARNOTT	5/78	
3HYA	HYALURONIC ACID(NA SALT, 2-FOLD HELIX)	S.ARNOTT	5/78	
4HYA	HYALURONIC ACID(CA SALT, 3-FOLD HELIX)	S.ARNOTT	5/78	
1PHH	P-HYDROXYBENZOATE HYDROXYLASE COMPLEX	H.SCHREUDER,J.DRENTH	11/87	
1FBJ	IGA FAB(KAPPA) J539	T.BHAT,D.DAVIES ET AL.	6/86	
1MCP	IGA FAB(KAPPA) MCPC603	SATOW,COHEN,PADLAN,DAVIES	7/84	
2MCP	IGA FAB(KAPPA) MCPC603/PHOSPHOCHOLINE	E.PADLAN,G.COHEN,D.DAVIES	10/84	
1FB4	IMMUNOGLOBULIN FAB (LAMBDA) NOL	M.MARQUART,R.HUBER	5/83	
3FAB	IMMUNOGLOBULIN FAB(PRIME) NEW	R.POLJAK	9/81	
2HFL	HYHEL-5 FAB/LYSOZYME COMPLEX	S.SHERIFF,D.DAVIES	8/87	
1MCG	IMMUNOGLOBULIN B-J INTACT MCG	SCHIFFER,EDMUNDSON ET AL.	5/78	A
1REI	IMMUNOGLOBULIN B-J FRAGMENT(V-DIMER) REI	O.EPP,R.HUBER	3/76	
2RHE	IMMUNOGLOBULIN B-J FRAGMENT(V-MNMER) RHE	FUREY,WANG,YOO,SAX	6/83	
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	
1IG2	IMMUNOGLOBULIN G1(LAMBDA) NOL	M.MARQUART,R.HUBER	5/83	
1INS	INSULIN(PORCINE,2-ZINC)	G.DODSON,D.HODGKIN	7/80	
2INS	INSULIN(BOVINE,2-ZINC) DES-PHE B1	C.REYNOLDS,G.DODSON	5/82	
3INS	*INSULIN(PORCINE,XRAY+NEUTRON)	A.WLODAWER,B.SAVAGE	10/88	
2PKA	KALLIKREIN A(PORCINE)	W.BODE,Z.CHEN	5/84	
2KAI	KALLIKREIN A(PORCINE)/PTI(BOVINE)	W.BODE,Z.CHEN	5/84	
1KGA	KDPG ALDOLASE	A.TULINSKY	8/78	A
1KES	KERATAN SULFATE	S.ARNOTT	5/78	
1BLM	BETA-LACTAMASE	O.HERZBERG,J.MOULT	4/87	A
4LDH	APO M4 LACTATE DEHYDROGENASE(DOGFISH)	M.EVENTOFF,M.ROSSMANN	4/77	
3LDH	LACTATE DEHYDROGENASE/NAD/PYRUVATE(DOGF)	M.ROSSMANN	11/74	
5LDH	LACTATE DERYDROGENASE/S-LAC/NAD (PIG)	U.GRAU,M.ROSSMANN	10/80	
1LDX	LACTATE DEHYDROGENASE(MOUSE TESTES)	W.MUSICK,M.ROSSMANN	9/78	
1LH1	LEGHEMOGLOBIN(ACETATE MET)	VAINSHTEIN,HARUTYUNYAN	4/82	
2LH1	LEGHEMOGLOBIN(ACETATE MET)	VAINSHTEIN,HARUTYUNYAN	4/82	
1LH2	LEGHEMOGLOBIN(AQUO MET)	VAINSHTEIN,HARUTYUNYAN	4/82	
2LH2	LEGHEMOGLOBIN(AQUO MET)	VAINSHTEIN,HARUTYUNYAN	4/82	
1LH3	LEGHEMOGLOBIN(CYANO MET)	VAINSHTEIN,HARUTYUNYAN	4/82	
2LH3	LEGHEMOGLOBIN(CYANO MET)	VAINSHTEIN,HARUTYUNYAN	4/82	
1LH4	LEGHEMOGLOBIN(DEOXY)	VAINSHTEIN,HARUTYUNYAN	4/82	
2LH4	LEGHEMOGLOBIN(DEOXY)	VAINSHTEIN,HARUTYUNYAN	4/82	
1LH5	LEGHEMOGLOBIN(FLUORO MET)	VAINSHTEIN,HARUTYUNYAN	4/82	
2LH5	LEGHEMOGLOBIN(FLUORO MET)	VAINSHTEIN,HARUTYUNYAN	4/82	
1LH6	LEGHEMOGLOBIN(NICOTINATE MET)	VAINSHTEIN,HARUTYUNYAN	4/82	
2LH6	LEGHEMOGLOBIN(NICOTINATE MET)	VAINSHTEIN,HARUTYUNYAN	4/82	
1LH7	LEGHEMOGLOBIN(FERRO)/NITROSOBENZENE	VAINSHTEIN,HARUTYUNYAN	4/82	
2LH7	LEGHEMOGLOBIN(FERRO)/NITROSOBENZENE	VAINSHTEIN,HARUTYUNYAN	4/82	
2LZH	LYSOZYME(BACTERIOPHAGE T4)	L.WEAVER,B.MATTHEWS	8/86	
1L01	LYSOZYME(T4) MUTANT(T155A,T157I)	B.MATTHEWS ET AL.	2/88	
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(T157D)	B.MATTHEWS ET AL.	2/88	
1L06	LYSOZYME(T4) MUTANT(T157E)	B.MATTHEWS ET AL.	2/88	
1L07	LYSOZYME(T4) MUTANT(T157F)	B.MATTHEWS ET AL.	2/88	
1L08	LYSOZYME(T4) MUTANT(T157G)	B.MATTHEWS ET AL.	2/88	
1L09	LYSOZYME(T4) MUTANT(T157H)	B.MATTHEWS ET AL.	2/88	
1L10	LYSOZYME(T4) MUTANT(T157I)	B.MATTHEWS ET AL.	2/88	
1L11	LYSOZYME(T4) MUTANT(T157L)	B.MATTHEWS ET AL.	2/88	
1L12	LYSOZYME(T4) MUTANT(T157N)	B.MATTHEWS ET AL.	2/88	
1L13	LYSOZYME(T4) MUTANT(T157R)	B.MATTHEWS ET AL.	2/88	
1L14	LYSOZYME(T4) MUTANT(T157S)	B.MATTHEWS ET AL.	2/88	
1L15	LYSOZYME(T4) MUTANT(T157V)	B.MATTHEWS ET AL.	2/88	
1L16	LYSOZYME(T4) MUTANT(G156D)	B.MATTHEWS ET AL.	2/88	
1LYZ	LYSOZYME(HEN EGG-WHITE,SET W2)	R.DIAMOND,D.PHILLIPS	2/75	
2LYZ	LYSOZYME(HEN EGG-WHITE,SET R55D)	R.DIAMOND,D.PHILLIPS	2/75	
3LYZ	LYSOZYME(HEN EGG-WHITE,SET R56A)	R.DIAMOND,D.PHILLIPS	2/75	

4LYZ	LYSOZYME (HEN EGG-WHITE, SET RS9A)	R.DIAMOND, D.PHILLIPS	2/75	
5LYZ	LYSOZYME (HEN EGG-WHITE, SET RS12A)	R.DIAMOND, D.PHILLIPS	2/75	
6LYZ	LYSOZYME (HEN EGG-WHITE, SET RS16)	R.DIAMOND, D.PHILLIPS	2/75	
7LYZ	LYSOZYME (HEN EGG-WHITE, TRICLINIC)	A.YONATH	5/77	
1LZT	LYSOZYME (HEN EGG-WHITE, TRICLINIC)	HODSDON, BROWN, SIEKER, JENSN	4/85	
8LYZ	LYSOZYME (HEN EGG-WHITE, INACTIVATED)	S.CATLEY	9/77	
9LYZ	LYSOZYME (HEN, NAM-NAG-NAM SUBSTRATE ONLY)	J.KELLY, M.JAMES	12/79	
1LZB	LYSOZYME (HEN EGG-WHITE, MONOCLINIC)	ARTYMIUK, BLAKE, RICE, WILSON	6/81	A
2LZB	LYSOZYME (HEN EGG-WHITE, ORTHORHOMBIC)	ARTYMIUK, BLAKE, RICE, WILSON	6/81	A
1LYM	LYSOZYME (HEN EGG-WHITE, MONOCLINIC)	HOGLE, RAO, SUNDARALINGAM	7/82	
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	
1LZ1	LYSOZYME (HUMAN)	P.ARTYMIUK, C.BLAKE	10/84	
1LZ2	LYSOZYME (TURKEY EGG-WHITE)	R.BOTT, R.SARMA	9/81	A
1CTF	L7/L12 50S RIBOSOMAL PROTEIN (C-TERMINAL)	M.LEIJONMARCK, A.LILJAS	9/86	
2MDH	MALATE DEHYDROGENASE	J.BIRKTOFT, L.BANASZAK	3/83	
1MLT	MELITTIN	TERWILLIGER, EISENBERG	8/81	
2MT2	CD, ZN METALLOTHIONEIN (ISOFORM II)	C.D.STOUT	10/85	
1MBS	MYOGLOBIN (SEAL, MET)	H.SCOULOUDI	3/79	
1MBN	MYOGLOBIN (SPERM WHALE, MET)	H.WATSON	4/73	
2MBN	MYOGLOBIN (SPERM WHALE, MET)	T.TAKANO	9/76	
3MBN	MYOGLOBIN (SPERM WHALE, DEOXY)	T.TAKANO	9/76	
1MBD	MYOGLOBIN (SPERM WHALE, DEOXY)	S.PHILLIPS	8/81	
1MBO	MYOGLOBIN (SPERM WHALE, OXY)	S.PHILLIPS	8/81	
1MB5	MYOGLOBIN (SPERM WHALE, CO, NEUTRON)	HANSON, NORVELL, SCHOENBORN	11/82	
1MBC	*MYOGLOBIN (SPERM WHALE, CARBONMONXY, 260 K)	J.KURIYAN, G.PETSKO	9/88	
2MHR	MYOHEMERYTHRIN	S.SHERIFF, W.HENDRICKSON	4/87	R
1NXB	NEUROTOXIN B (LATICAUDA SEMIFASCIATA)	D.TSERNOGLOU, G.PETSKO	8/80	
1SN3	SCORPION NEUROTOXIN (VARIANT 3)	C.BUGG ET AL.	12/82	
1OVO	OVOMUCOID THIRD DOMAIN (JAPANESE QUAIL)	E.PAPAMOKOS, R.HUBER	1/82	
2OVO	OVOMUCOID THIRD DOMAIN (SILVER PHEASANT)	W.BODE, O.EPP	6/85	
1XY1	DEAMINO-OXYTOCIN (WET FORM)	T.BLUNDELL ET AL.	5/87	
1XY2	DEAMINO-OXYTOCIN (DRY FORM)	T.BLUNDELL ET AL.	5/87	
1PPT	AVIAN PANCREATIC POLYPEPTIDE	T.BLUNDELL	1/81	
1PAD	PAPAIN (ACE-ALA-ALA-PHE-ALA, CYS-25)	J.DRENTH	11/76	
2PAD	PAPAIN (CYS DERIV OF CYS-25)	J.DRENTH	11/76	
9PAP	PAPAIN (OXIDIZED CYS 25)	I.KAMPHUIS, J.DRENTH	3/86	
4PAD	PAPAIN (TOS-LYS, CYS-25)	J.DRENTH	11/76	
5PAD	PAPAIN (BZOXY-GLY-PHE-GLY, CYS-25)	J.DRENTH	11/76	
6PAD	PAPAIN (BZOXY-PHE-ALA, CYS-25)	J.DRENTH	11/76	
1PPD	PAPAIN D	J.JANSONIUS	10/84	
1PEP	PEPSIN (PORCINE)	N.ANDREEVA ET AL.	7/78	A
1PSG	*PEPSINOGEN (PORCINE)	J.HARTSUCH, S.REMINGTON	10/88	
1PFK	*PHOSPHOFRUCTOKINASE (E. COLI)-F6P-ADP/MG	Y.SHIRAKIHARA, P.EVANS	1/88	
2PFK	*PHOSPHOFRUCTOKINASE (E. COLI)	Y.SHIRAKIHARA, P.EVANS	1/88	
3PFK	*PHOSPHOFRUCTOKINASE (B.STEAROTHERMOPHILS)	P.EVANS, P.HUDSON	1/88	
4PFK	*PHOSPHOFRUCTOKINASE (B. ST.)-F6P-ADP/MG	P.EVANS, P.HUDSON	1/88	
5PFK	*PHOSPHOFRUCTOKINASE (B. ST.) T-STATE	EVANS, FARRANTS, LAWRENCE	1/88	A
3PGK	PHOSPHOGLYCERATE KINASE (YEAST)	H.WATSON	7/82	
2PGK	PHOSPHOGLYCERATE KINASE (HORSE)	P.EVANS, C.BLAKE	9/76	B
3PGM	PHOSPHOGLYCERATE MUTASE	H.WATSON	4/82	
1BP2	PHOSPHOLIPASE A2 (BOVINE)	B.DIJKSTRA, J.DRENTH	4/81	
2BP2	PROPHOSPHOLIPASE A2 (BOVINE)	B.DIJKSTRA, W.HOL, J.DRENTH	6/81	
3BP2	PHOSPHOLIPASE A2 (BOVINE) TRANSAMINATED	B.DIJKSTRA, J.DRENTH	6/83	
1P2P	PHOSPHOLIPASE A2 (PORCINE)	B.DIJKSTRA ET AL.	6/83	
1PP2	PHOSPHOLIPASE A2 (CA-FREE, RATTLESNAKE)	S.BRUNIE, P.SIGLER	3/86	
1PRC	*PHOTOSYNTHETIC REACTION CENTER	J.DEISENHOFER ET AL.	2/88	
1PCY	PLASTOCYANIN (POPLAR, CU2+)	J.GUSS, H.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	
2PAB	PREALBUMIN (HUMAN, PLASMA)	S.CATLEY, C.BLAKE	9/77	
2SGA	PROTEINASE A (STREPTOMYCES GRISEUS)	M.JAMES, A.SIELECKI	1/83	
1SGC	PROTEINASE A (STREP.GRISEUS)/CHYMOSTATIN	L.DELBAERE, G.BRAYER	4/86	
3SGB	PROTEINASE B (STREP.GRISEUS)/OMTKY3	A.SIELECKI ET AL.	1/83	
2PRK	PROTEINASE K (TRITIRACHIUM ALBUM LIMBER)	C.BETZEL, G.PAL, W.SAENGER	11/87	
3RP2	PROTEINASE II (RAT MAST CELL)	S.REMINGTON, B.MATTHEWS	9/84	
1PAZ	PSEUDOAZURIN (ALCALIGENES FAECALIS)	PETRATOS, DAUTER, WILSON	6/88	
2PAZ	*PSEUDOAZURIN (ALCALIGENES FAECALIS)	E.ADMAN, K.PETRATOS	9/88	
1PYP	INORGANIC PYROPHOSPHATASE	E.BARUTYUNYAN ET AL.	2/83	
1PYK	PYRUVATE KINASE (CAT)	R.MUIRHEAD	1/80	A
1LRP	*LAMBDA REPRESSOR (BACTERIOPHAGE LAMBDA)	C.PABO, M.LEWIS	12/87	A
1RHD	RHODANESE	W.HOL	12/77	
5RSA	RIBONUCLEASE A (X-RAY+NEUTRON)	A.WLODAWER	4/85	
6RSA	RIBONULCEASE A/URIDINE VANADATE COMPLEX	A.WLODAWER	2/86	
1RN3	RIBONUCLEASE A	BORKAKOTI, MOSS, PALMER	10/81	
7RSA	RIBONUCLEASE A (PHOSPHATE-FREE)	A.WLODAWER, G.GILLILAND	6/88	
1RSH	LYS 7-DNP-LYS 41 RIBONUCLEASE A	B.FINZEL ET AL.	8/85	
1RBB	RIBONUCLEASE B (GLYCOSYLATED)	WILLIAMS, GREENE, MCPHERSON	9/87	
1RNS	RIBONUCLEASE S	R.WYCKOFF, F.RICHARDS	4/73	
1RNT	RIBONUCLEASE T1/GUANYLIC ACID COMPLEX	W.SAENGER ET AL.	7/87	
4RXN	RUBREDOXIN (C.PASTEURIANUM, UNCONSTR REF)	WATENPAUGH, SIEKER, JENSEN	10/84	
5RXN	RUBREDOXIN (C.PASTEURIANUM, NRG+XTAL REF)	K.WATENPAUGH	10/84	
3RXN	RUBREDOXIN (DESULFOVIBRIO VULGARIS)	E.ADMAN, L.SIEKER, L.JENSEN	9/80	
2SNS	STAPHYLOCOCCAL NUCLEASE	M.LEGG, F.A.COTTON, E.HAZEN	5/82	
2SSI	SUBTILISIN INHIBITOR (STREPTOMYCES)	Y.MITSUI ET AL.	4/80	
1SBC	SUBTILISIN CARLSBERG	D.NEIDHART, G.PETSKO	5/88	
2SEC	SUBTILISIN CARLSBERG/EGLIN COMPLEX	C.MCPHALEN, M.JAMES	9/88	R
1CSE	SUBTILISIN CARLSBERG/EGLIN COMPLEX	W.BODE	6/88	
1SBT	SUBTILISIN BPN (PRIME)	J.KRAUT	8/72	
2SBT	SUBTILISIN NOVO	J.DRENTH	9/76	
2SNI	SUBTILISIN NOVO/CHYMOTRYPSIN INHIBITOR	C.MCPHALEN, M.JAMES	9/88	R
1SIC	SUBTILISIN BPN (PRIME)/SSI COMPLEX	Y.MITSUI ET AL.	4/84	A
2SOD	SUPEROXIDE DISMUTASE	J.RICHARDSON, D.RICHARDSON	3/80	
3TLN	THERMOLYSIN (NATIVE)	B.MATTHEWS, M.HOLMES	2/82	
4TLN	THERMOLYSIN (L-LEU-NHOH)	B.MATTHEWS, M.HOLMES	2/82	
5TLN	THERMOLYSIN (HONH-BZMALONYL-A-G-NTROANLD)	B.MATTHEWS, M.HOLMES	2/82	
7TLN	THERMOLYSIN (CH2CO(N-OH)LEUOCH3)	B.MATTHEWS, M.HOLMES	1/83	
1TLP	*THERMOLYSIN/PHOSPHORAMIDON INHBTR CMPLX	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/VM INHIBITOR COMPLEX	R.HOLDEN, B.MATTHEWS	6/87	
4TMN	*THERMOLYSIN/ZFPLA 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	
1SRX	THIOREDOXIN (E. COLI, OXIDIZED)	B.-O.SODERBERG	5/76	A
1TON	TONIN (RAT)	M.FUJINAGA, M.JAMES	6/87	
9TNA	TRANSFER RNA (YEAST, ASP)	WESTHOF, DUMAS, MORAS	6/85	
1TN1	TRANSFER RNA (YEAST, PHE, PB, PH 7.4)	DEWAN, BROWN, HINGERTY, KLUG	12/86	
1TN2	TRANSFER RNA (YEAST, PHE, PB, PH 5.0)	J.DEWAN, R.BROWN, A.KLUG	8/86	
4TNA	TRANSFER RNA (YEAST, PHE)	A.JACK, J.LADNER, A.KLUG	4/78	
6TNA	TRANSFER RNA (YEAST, PHE)	S.-H.KIM ET AL.	11/78	
1TRA	TRANSFER RNA (YEAST, PHE)	M.SUNDARALINGAM ET AL.	5/86	
1TIM	TRIOSE PHOSPHATE ISOMERASE	I.WILSON, D.PHILLIPS	9/76	
2TMA	ALPHA TROPOMYOSIN	G.PHILLIPS JR., C.COHEN	9/87	A
4TNC	TROPONIN C (CHICKEN)	M.SUNDARALINGAM	9/87	R
5TNC	TROPONIN C (TURKEY)	O.HERZBERG, M.JAMES	5/88	R
1WRP	TRP REPRESSOR (TRIGONAL)	P.SIGLER ET AL.	12/87	
2WRP	TRP REPRESSOR (ORTHORHOMBIC)	P.SIGLER ET AL.	12/87	
3WRP	APO-TRP REPRESSOR	P.SIGLER ET AL.	12/87	
2PTN	TRYPSIN (ORTHORHOMBIC, 2.4M (NH4)2SO4)	J.WALTER, R.HUBER, W.BODE	10/81	
1TPO	TRYPSIN (ORTHORHOMBIC)	W.BODE, J.WALTER, R.HUBER	9/82	
3PTN	TRYPSIN (TRIGONAL, 2.4M (NH4)2SO4)	J.WALTER, R.HUBER, W.BODE	10/81	
3PTB	TRYPSIN (BENZAMIDINE INHIBITED)	W.BODE, P.SCHWAGER, J.WALTER	9/82	
1TPP	TRYPSIN/P-AMIDINO-PHENYL-PYRUVATE	J.WALTER, W.BODE, R.HUBER	9/82	
4PTP	TRYPSIN (DIP INHIBITED)	CRAMBERS, STROUD, FINER-MOORE	4/88	R
1NTP	MODIFIED BETA TRYPSIN (NEUTRON)	A.KOSSIAKOFF	9/87	
1TRM	TRYPSIN (RAT) MUTANT (D102N)	SPRANG, STANDING, FLETTERICK	10/87	
2TRM	TRYPSIN (RAT) MUTANT (D102N)/BENZAMIDINE	R.STROUD, J.FINER-MOORE	4/88	
4PTI	TRYPSIN INHIBITOR (BOVINE, PANCREAS)	R.HUBER, J.DEISENHOFER	9/82	
5PTI	TRYPSIN INHIBITOR (BOVINE, XRAY+NEUTRON)	A.WLODAWER, R.HUBER	10/84	
6PTI	TRYPSIN INHIBITOR (FORM III, BOVINE)	A.WLODAWER	5/87	
2PTC	TRYPSIN/TRYPSIN INHIBITOR COMPLEX	R.HUBER, J.DEISENHOFER	9/82	
1TPA	TRYPSIN (ANHYDRO)/TRYPSIN INHIBITOR	HUBER, BODE, DEISENHOFER	9/82	
1SGT	TRYPSIN (STREPTOMYCES GRISEUS)	R.READ, M.JAMES	4/88	
1TGN	TRYPSINOGEN	A.KOSSIAKOFF, R.STROUD	9/79	
2TGA	TRYPSINOGEN (2.4M MGSO4)	J.WALTER, R.HUBER, W.BODE	10/81	
1TGC	TRYPSINOGEN (.5 CH3OH, .5 HOH)	J.WALTER, R.HUBER, W.BODE	10/81	
1TGT	TRYPSINOGEN (173 K, .7 CH3OH, .3 HOH)	J.WALTER, R.HUBER, W.BODE	10/81	
2TGT	TRYPSINOGEN (103 K, .7 CH3OH, .3 HOH)	J.WALTER, R.HUBER, W.BODE	10/81	
1TGB	TRYPSINOGEN (WITH CA, FROM PEG)	BODE, FEHLHAMMER, HUBER	3/79	
2TGD	TRYPSINOGEN (DIP-INHIBITED, BOVINE)	M.JONES, R.STROUD	3/86	
2TGP	TRYPSINOGEN/TRYPSIN INHIBITOR	R.HUBER ET AL.	9/82	
3TPI	TRYPSINOGEN/TRYPSIN INHIBITOR/ILE-VAL	R.HUBER ET AL.	9/82	
2TPI	TRYPSINOGEN/PTI/ILE-VAL (MERCURATED)	J.WALTER, R.HUBER, W.BODE	10/81	
4TPI	TRYPSINOGEN/ARG-15-PTI/VAL-VAL	W.BODE, J.WALTER	6/85	
1TGS	TRYPSINOGEN/PSTI	R.HUBER ET AL.	9/82	
1WSY	*TRYPTOPHAN SYNTHASE (S.TYPHIMURIUM)	D.DAVIES ET AL.	9/88	
1TS1	TYROSYL TRANSFER RNA SYNTHETASE	BHAT, BLOW, BRICK, NYBORG	7/82	A
1UBQ	UBIQUITIN (HUMAN)	VIJAY-KUMAR, BUGG, COOK	1/87	
1MEV	MENGO VIRUS	M.ROSSMANN	2/87	
4RHV	RHINOVIRUS 14 (HUMAN)	E.ARNOLD, M.ROSSMANN	11/87	R
1RS1	RHINOVIRUS/ANTIVIRAL AGENT 1S COMPLEX	M.ROSSMANN ET AL.	2/88	
1RR1	RHINOVIRUS/ANTIVIRAL AGENT 1R COMPLEX	M.ROSSMANN ET AL.	2/88	
1RM2	RHINOVIRUS/ANTIVIRAL AGENT 2 COMPLEX	M.ROSSMANN ET AL.	2/88	
1RS3	RHINOVIRUS/ANTIVIRAL AGENT 3S COMPLEX	M.ROSSMANN ET AL.	2/88	
1RO4	RHINOVIRUS/ANTIVIRAL AGENT 4 COMPLEX	M.ROSSMANN ET AL.	2/88	
1RS5	RHINOVIRUS/ANTIVIRAL AGENT 5S COMPLEX	M.ROSSMANN ET AL.	2/88	
1RO6	RHINOVIRUS/ANTIVIRAL AGENT 6 COMPLEX	M.ROSSMANN ET AL.	2/88	
1RO7	RHINOVIRUS/ANTIVIRAL AGENT 7 COMPLEX	M.ROSSMANN ET AL.	2/88	
2STV	VIRUS (SATELLITE TOBACCO NECROSIS)	T.A.JONES, L.LILJAS	6/84	
4SBV	VIRUS COAT PROTEIN (SOUTHERN BEAN MOSAIC)	M.ROSSMANN	4/85	
2TMV	*VIRUS (TOBACCO MOSAIC)	G.STUBBS	9/88	
2TBV	VIRUS (TOMATO BUSHY STUNT)	S.HARRISON	6/84	
1XIA	D-XYLOSE ISOMERASE	D.BLOW	2/88	A
2XIA	D-XYLOSE ISOMERASE (S.RUBIGINOSUS)	H.CARRELL	5/88	A

MODEL STRUCTURES

2CLN	CALMODULIN/TRIFLUOPERAZINE MODEL	N.STRYNADKA, M.JAMES	2/88	
1DN7	DNA (POLY(DG)-POLY(DC), SYNTHETIC) MODEL	M.MCCALL, T.BROWN, O.KENNARD	5/87	
2ZNA	DNA (Z-I, CGCGCG, SYNTHETIC) MODEL	A.RICH	2/81	
3ZNA	DNA (Z-II, CGCGCG, SYNTHETIC) MODEL	A.RICH	2/81	
1DNN	DNA (ATCGGCTAAG...) MODEL	J.SUSSMAN, E.TRIFONOV	11/82	
2GAP	CATABOLITE GENE ACTIVATOR PTN/DNA MODEL	I.WEBER, T.STEITZ	3/86	A
1IGE	IMMUNOGLOBULIN E (FC FRAGMENT) MODEL	E.PADLAN, D.DAVIES	1/85	
1HFM	HYHEL-10 ANTIBODY, FV REGION MODEL	C.MAINHART	10/87	
2HFM	HYHEL-10/LYSOZYME COMPLEX MODEL	C.MAINHART	10/87	
1GF1	INSULIN-LIKE GROWTH FACTOR I MODEL	BLUNDELL, BEDARKAR, HUMBEL	12/82	
1GF2	INSULIN-LIKE GROWTH FACTOR II MODEL	BLUNDELL, BEDARKAR, HUMBEL	12/82	
1MLP	MUREIN LIPOPROTEIN MODEL	A.MCLACHLAN	8/78	
1RLX	RELAXIN (CONFORMATION A, UNREFINED) MODEL	A.EVANS, A.NORTH	3/78	
2RLX	RELAXIN (CONFORMATION B, UNREFINED) MODEL	A.EVANS, A.NORTH	3/78	
3RLX	RELAXIN (CONFORMATION A, REFINED) MODEL	A.EVANS, A.NORTH	3/78	
4RLX	RELAXIN (CONFORMATION B, REFINED) MODEL	A.EVANS, A.NORTH	3/78	
7TMN	*TROPOMYOSIN SUBSTRATE (TRANSITION) MODEL	B.MATTHEWS ET AL.	6/87	
1TNC	TROPONIN (CA-BINDING COMPONENT) MODEL	R.KRETSINGER, C.D.BARRY	6/80	A

* NEW OR REPLACEMENT ENTRY SINCE OCT-88 NEWSLETTER

STATUS CODES

BLANK	STANDARD ENTRY AVAILABLE FOR DISTRIBUTION
A	ALPHA CARBON ATOMS ONLY
B	BACKBONE ONLY
R	RECENT (1987-1989) REPLACEMENT FOR AN OUT-OF-DATE PARAMETER SET

TABLE 6. COORDINATE AND STRUCTURE FACTOR ENTRIES IN PREPARATION

09-JAN-89

IDENT CODE	MOLECULE	DEPOSITOR(S)	DATE/ STATUS	
3ACN	*ACONITASE (PIG, INACTIVE)	A.ROBBINS, C.D.STOUT	12/88	P
4ACN	*ACONITASE (PIG, ACTIVATED)	A.ROBBINS, C.D.STOUT	12/88	P
5WGA	AGGLUTININ (WHEAT GERM, ISOLECTIN 2)	C.WRIGHT	6/88	RP
6WGA	AGGLUTININ (WHEAT GERM, ISOLECTIN 1)	C.WRIGHT	7/88	P
7API	ALPHA 1-ANTITRYPSIN (MODIFIED, TETRAGONAL)	R.HUBER ET AL.	9/88	RP
8API	ALPHA 1-ANTITRYPSIN (MODIFIED, HEXAGONAL)	R.HUBER ET AL.	9/88	RP
9API	ALPHA 1-ANTITRYPSIN (MODIFIED, TETRAGONAL)	R.HUBER ET AL.	9/88	P
2BDS	*BDS-I (SEA ANEMONE) (NMR, 42 STRUCTURES)	G.M.CLORE, A.GRONENBORN	11/88	P
2CRO	*CRO (PHAGE 434)	S.HARRISON ET AL.	12/88	P
5CYT	CYTOCHROME C (ALBACORE, REDUCED)	T.TAKANO	1/88	RP
5DFR	*APO-DIHYDROFOLATE REDUCTASE (E.COLI)	J.KRAUT	10/88	P
6DFR	*DIHYDROFOLATE REDUCTASE (E.COLI)/NADP	J.KRAUT	10/88	P
7DFR	*DIHYDROFOLATE REDUCTASE/FOLATE/NADP	J.KRAUT	10/88	P
1DNF	*DNA (CGCGFG)	A.RICH ET AL.	12/88	P
1FD2	*FERREDOXIN MUTANT (C20A)	C.D.STOUT	12/88	P
1GLS	GLUTAMINE SYNTHETASE (S.TYPHIMURIUM)	D.EISENBERG ET AL.	9/88	P
4GPD	APO-GLYCERALDEHYDE-3-P-DEHYDRGNSE (LBSTR)	M.ROSSMANN	1/88	P
1GMA	GRAMICIDIN A (BACILLUS BREVIS)	D.LANGS	8/88	P
1COH	*HEMOGLOBIN (ALPHA-FERROUS, BETA-COBALTOUS)	B.LUISI	1/89	P
1HIR	*HIRUDIN (NMR)	CLORE, GRONENBORN ET AL.	12/88	P
1F19	*FAB F19.9 (MOUSE)	R.POLJAK ET AL.	11/88	N
3HFM	HYHEL-10 FAB/LYSOZYME COMPLEX	E.PADLAN, D.DAVIES	8/88	P
6LDH	APO-M4-LACTATE DEHYDROGENASE (DOGFISH)	M.ROSSMANN	11/87	P
1LDM	LACTATE DEHYDROGENASE/NADH/OXAMATE (DOGF)	M.ROSSMANN	11/87	P
2LDX	LACTATE DEHYDROGENASE (HOUSE TESTES)	M.ROSSMANN	11/87	RP
8LDH	APO-M4-LACTATE DEHYDROGENASE/CITRATE	M.ROSSMANN	1/88	P
1LLC	*LACTATE DEHYDROGENASE (L.CASEI)	M.BUERNER, H.HECHT, R.HENSEL	11/88	P
1LIV	*LEU-ILE-VAL BINDING PROTEIN (E.COLI)	J.SACK, M.SAPER, F.QUIOCHO	1/89	P
1LBP	*LEUCINE BINDING PROTEIN (E.COLI)	F.QUIOCHO ET AL.	1/89	P
1LYD	*LYSOZYME (T4 EXPRESSED IN E.COLI)	D.ROSE	1/89	P
2LZ2	*LYSOZYME (TURKEY)	M.PARSONS	10/88	P
3MDH	*MALATE DEHYDROGENASE (PORCINE)	J.BIRKTOFT, L.BANASZAK	12/88	RP
4MBN	MYOGLOBIN (SPERM WHALE, MET)	T.TAKANO	1/88	RP
5MBN	MYOGLOBIN (SPERM WHALE, DEOXY)	T.TAKANO	1/88	RP
2P2P	*PHOSPHOLIPASE A2 (PORCINE) MUTANT	B.DIJKSTRA	1/89	P
1LRD	*LAMBDA REPRESSOR/DNA	S.JORDAN, C.PABO	10/88	P
1R69	*R1-69 N-TERMINUS OF 434 REPRESSOR	S.HARRISON ET AL.	12/88	P
1OR1	*R1-69 (PHAGE 434)/OR1 COMPLEX	AGGARWAL, ANDERSON, HARRISON	1/89	P
1RIA	RIBONUCLEASE A/D (PA) 4 COMPLEX	MCPHERSON, BRAYER, MORRISON	9/87	N
2RNT	RIBONUCLEASE T1/GUANYL-2',5'-GUANOSINE	U.HEINEMANN ET AL.	7/88	P
2RUB	*RUBISCO (RHODOSPIRILLUM RUBRUM)	C.-I.BRANDEN	11/88	N
1RUB	RUBISCO (TOBACCO)	D.EISENBERG ET AL.	9/88	N
1RDG	RUBREDOXIN (DESULFOVIBRIO GIGAS)	M.FREY, L.SIEKER, F.PAYAN	3/88	N
1AIT	*TENDAMISTAT (NMR DATA)	K.WUTHRICH ET AL.	1/89	P
2TRA	TRANSFER RNA (YEAST ASP, FORM A)	E.WESTHOF, P.DUMAS, D.MORAS	11/87	P
3TRA	TRANSFER RNA (YEAST ASP, FORM B)	E.WESTHOF, P.DUMAS, D.MORAS	11/87	P
4TRA	TRANSFER RNA (YEAST PHE, ORTHORHOMBIC)	E.WESTHOF, P.DUMAS, D.MORAS	11/87	P
1R1A	*RHINOVIRUS 1A	M.ROSSMANN ET AL.	12/88	P

1RMU	RHINOVIRUS MUTANT{(1)C199Y)	M.ROSSMANN ET AL.	10/88	P
2RMU	RHINOVIRUS MUTANT{(1)V188L)	M.ROSSMANN ET AL.	10/88	P
2RR1	RHINOVIRUS/ANTIVIRAL AGENT 1R COMPLEX	M.ROSSMANN ET AL.	10/88	RP
2RS1	RHINOVIRUS/ANTIVIRAL AGENT 1S COMPLEX	M.ROSSMANN ET AL.	10/88	RP
2RM2	RHINOVIRUS/ANTIVIRAL AGENT 2 COMPLEX	M.ROSSMANN ET AL.	10/88	RP
2RS3	RHINOVIRUS/ANTIVIRAL AGENT 3S COMPLEX	M.ROSSMANN ET AL.	10/88	RP
2R04	RHINOVIRUS/ANTIVIRAL AGENT 4 COMPLEX	M.ROSSMANN ET AL.	10/88	RP
2RS5	RHINOVIRUS/ANTIVIRAL AGENT 5S COMPLEX	M.ROSSMANN ET AL.	10/88	RP
2R06	RHINOVIRUS/ANTIVIRAL AGENT 6 COMPLEX	M.ROSSMANN ET AL.	10/88	RP
2R07	RHINOVIRUS/ANTIVIRAL AGENT 7 COMPLEX	M.ROSSMANN ET AL.	10/88	RP
1R08	RHINOVIRUS/ANTIVIRAL AGENT 8 COMPLEX	M.ROSSMANN ET AL.	10/88	P
1FVB	IMMUNOGLOBULIN FV B1912 MODEL	E.KABAT,E.PADLAN	4/88	P
2FVB	IMMUNOGLOBULIN FV B1912 MODEL	E.KABAT,E.PADLAN	4/88	P
1FVW	IMMUNOGLOBULIN FV W3129 MODEL	E.KABAT,E.PADLAN	4/88	P
2FVW	IMMUNOGLOBULIN FV W3129 MODEL	E.KABAT,E.PADLAN	4/88	P
R5CYTSF	CYTOCHROME C(ALBACORE,REDUCED)	T.TAKANO	1/88	SF
R4GPDSF	APO-GLYCERALDEHYDE-3-P-DEHYDRGNSE(LBSTR)	M.ROSSMANN	1/88	SF
R1COBSF	*HEMOGLOBIN(ALPHA-FERROUS,BETA-COBALTOUS)	B.LUISI	1/89	SF
R3HFMSF	HYBEL-10 FAB/LYSOZYME COMPLEX	E.PADLAN,D.DAVIES	8/88	SF
R8LDHSF	APO-M4-LACTATE DEHYDROGENASE/CITRATE	M.ROSSMANN	1/88	SF
R7LDHSF	LACTATE DEHYDROGENASE COMPLEXES	M.ROSSMANN	1/88	SF
R6LDHSF	APO-M4-LACTATE DEHYDROGENASE(DOGFISH)	M.ROSSMANN	11/87	SF
R1LDMSF	LACTATE DEHYDROGENASE/NADH/OXAMATE(DOGF)	M.ROSSMANN	11/87	SF
R2LDXSF	LACTATE DEHYDROGENASE(MOUSE TESTES)	M.ROSSMANN	11/87	SF
R1LLCSF	*LACTATE DEHYDROGENASE(L.CASEI)	BUEHNER,ECHT,HENSEL	11/88	SF
R2LZ2SF	*LYSOZYME(TURKEY)	M.PARSONS	10/88	SF
R3MDHSF	*MALATE DEHYDROGENASE(PORCINE)	J.BIRKTOFT,L.BANASZAK	12/88	SF
R4MBNSF	MYOGLOBIN(SPERM WHALE,MET)	T.TAKANO	1/88	SF
R5MBNSF	MYOGLOBIN(SPERM WHALE,DEOXY)	T.TAKANO	1/88	SF
R2RNTSF	RIBONUCLEASE T1/GUANYL-2',5'-GUANOSINE	U.HEINEMANN ET AL.	7/88	SF
R1RDGSF	RUBREDOXIN(DESULFOVIBRIO GIGAS)	FREY,SIEKER,PAYAN	3/88	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
R1R1ASF	*RHINOVIRUS 1A	M.ROSSMANN ET AL.	12/88	SF

* NEW OR REPLACEMENT ENTRY SINCE OCT-88 NEWSLETTER

STATUS CODES

A	ALPHA CARBON ATOMS ONLY
B	BACKBONE ONLY
N	NEW ENTRY AWAITING APPROVAL BY DEPOSITOR
P	IN PREPARATION
R	REPLACEMENT FOR ENTRY IN TABLE 5
SF	STRUCTURE FACTORS

TABLE 7. PROTEIN DATA BANK, BIBLIOGRAPHIC ENTRIES (NO COORDINATES)

09-JAN-89

0EAP	ACID PROTEINASE(ENDOTHIA PARASITICA)
0WG1	AGGLUTININ(WHEAT GERM, ISOLECTIN 1)
0HOE	ALPHA-AMYLASE INHIBITOR HOE-467A(STREPTOMYCES TENDAE 4158)
0AF1	APOFERRITIN(HORSE)
0MAA	MITOCHONDRIAL ASPARTATE AMINOTRANSFERASE
0RNB	BARNASE(BACILLUS AMYLOLIQUEFACIENS)
0CPT	CALCIUM-BINDING PARVALBUMIN - TERBIUM COMPLEX
0CDI	CALOTROPIN DI(CALOTROPIS GIGANTEA)
0CPS	CARBOXYPEPTIDASE A(ALPHA)/GLYCYL-L-TYROSINE(-9 DEGREES C)
0ZGP	D-ALANYL-D-ALANINE PEPTIDASE(ZN2+ G PEPTIDASE)
0GCB	GAMMA-CHYMOTRYPSIN/3-BENZYL-6-CHLORO-2-PYRONE
0GCI	GAMMA-CHYMOTRYPSIN - INACTIVATOR COMPLEX
0CN2	CONCANAVALIN A(DEMETALLIZED)
05C1	CYTOCHROME C555(CHLOROBIUM THIOSULFATOPHILUM)
0CPF	CYTOCHROME P450CAM(SUBSTRATE-FREE)
0DNI	DEOXYRIBONUCLEASE I(DNASE I)
0C3A	DES-ARG77-C3A ANAPHYLATOXIN
0CDF	DIHYDROFOLATE REDUCTASE(CHICKEN LIVER)
0DF5	R67 DIHYDROFOLATE REDUCTASE(ESCHERICHIA COLI)
0DN2	DNA(CGCAAATTCGCG, SYNTHETIC)
0DN3	DNA(CGCGAATTAGCG, SYNTHETIC)
0DAC	DNA(GCGTACGC, SYNTHETIC) COMPLEX WITH TRIOSTIN
0DN1	DNA(GGGGTCCC, SYNTHETIC)
0AN8	DNA(GGTATACC)
0ANB	DNA(GG+UA+UACC)
0GTC	DNA(A,GGGGCTCC, SYNTHETIC)
0ESC	ELASTASE COMPLEX WITH TWO MOLECULES OF ACE-ALA-PRO-ALA
0ESZ	ELASTASE COMPLEX(PIG)
0EXA	EXOTOXIN A(PSEUDOMONAS AERUGINOSA)
0FDL	FAB(IGG D1.3) COMPLEX WITH LYSOZYME
0FXI	FERREDOXIN I(APHANOTHECE SACRUM)
0FX3	FLAVODOXIN(OXIDIZED,ANACYSTIS NIDULANS)
0FX2	FLAVODOXIN(REDUCED,CLOSTRIDIUM MP)
0GBP	D-GALACTOSE-BINDING PROTEIN(ESCHERICHIA COLI)
0GLS	GLUTAMINE SYNTHETASE(SALMONELLA TYPHIMURIUM)
0GD2	D-GLYCERALDEHYDE 3-PHOSPHATE DEHYDROGENASE(BACILLUS STEAROTHERMOPHILUS)
0GOX	GLYCOLATE OXIDASE(SPINACH)
0HPI	HEMOCYANIN(PANULIRUS INTERRUPTUS)
0DCH	HEMOGLOBIN(COBALT,DEOXY)
0HBG	HEMOGLOBIN(GLYCERA DIBRANCHIATA)
0HBT	HEMOGLOBIN(T STATE,HUMAN)
0AUI	IMMUNOGLOBULIN, BENCE-JONES FRAGMENT(KAPPA) AU
0ROY	IMMUNOGLOBULIN, BENCE-JONES FRAGMENT(V-MONOMER,KAPPA) ROY
01G1	IMMUNOGLOBULIN G1(KAPPA) DOB
0IN4	INSULIN(HUMAN)
0IN1	INSULIN(PORCINE)
0IN2	INSULIN(PORCINE)
0IN3	DESPENTAPEPTIDE INSULIN(BEEF)
0GLM	LYSOZYME(EMBDEN GOOSE)
0LZ5	LYSOZYME(HEN EGG-WHITE,NEUTRON STUDY)
0LZE	LYSOZYME(HEN EGG-WHITE,DEUTERATED ETHANOL)
0LZT	LYSOZYME(HEN EGG-WHITE,HIGH-TEMPERATURE)
0LZ6	LYSOZYME(STREPTOMYCES ERYTHRAEUS)
0TEL	LYSOZYME(TORTOISE EGG-WHITE)
0B2M	BETA2-MICROGLOBULIN
0MMD	MITOCHONDRIAL MALATE DEHYDROGENASE(PORCINE)
0MBA	MYOGLOBIN(APLYSIA LIMACINA)
0MBH	MYOGLOBIN(SPERM WHALE,MET,TEMPERATURE STUDIES)
0MB3	MYOGLOBIN(SPERM WHALE,MET,NEUTRON STUDY)
0PGL	PHOSPHOGLUCOMUTASE(RABBIT)
0PPA	PHOSPHORYLASE A(RABBIT)
0PB1	PHOSPHORYLASE B(RABBIT)
0CPC	C-PHYCOCYANIN(AGMENELLUM QUADRUPLICATUM)
0PF1	PROTHROMBIN FRAGMENT 1(BOVINE)
0RX5	RELAXIN(PORCINE) MODEL
0RSA	RIBONUCLEASE A(BOVINE)
0RIA	RIBONUCLEASE A(BOVINE) COMPLEX WITH DNA(AAAA)
0RBS	RIBONUCLEASE(BOVINE SEMINAL)
0RBI	RIBONUCLEASE BI(BINASE)
0RST	RIBONUCLEASE ST(STREPTOMYCES ERYTHREUS)
0SBP	SULFATE-BINDING PROTEIN
0SDE	FE-SUPEROXIDE DISMUTASE(ESCHERICHIA COLI)
0SDP	FE-SUPEROXIDE DISMUTASE(PSEUDOMONAS OVALIS)
0SDM	MN-SUPEROXIDE DISMUTASE(THERMUS THERMOPHILUS)
0THI	THAUMATIN
0TLL	THERMOLYSIN(BACILLUS THERMOPROTEOLYTICUS) COMPLEX WITH P-LEU-NH2
0TT4	THIOREDOXIN(BACTERIOPHAGE T4)
0FMT	INITIATOR TRANSFER RNA(E. COLI,F/MET)
0TA1	TRANSFER RNA(YEAST,ASP,A FORM)
0TR1	TRANSFER RNA(YEAST,PHE)
0MTS	METHIONYL TRANSFER RNA SYNTHETASE
0TMD	TRIMETHYLAMINE DEHYDROGENASE
0YPI	TRIOSE PHOSPHATE ISOMERASE(SACCHAROMYCES CEREVISIAE)
0UTG	UTEROGLOBIN(RABBIT)
0AD2	ADENOVIRUS TYPE 2 HEXON(AD2)
0PLV	VIRUS(POLIO,HUMAN)

* NEW OR REPLACEMENT ENTRY SINCE OCT-88 NEWSLETTER

TABLE 8. CORRECTIONS TO COORDINATE ENTRIES AND PROGRAMS

09-JAN-89

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

A. ORDER CORR24F1. 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 DATAPRTP.

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.

REVDAT	4	09-JAN-89	1MB5C	1	HET
REVDAT	4	09-JAN-89	2SGAC	3	REMARK FORMUL HETATM
REVDAT	5	09-JAN-89	3SGBD	3	REMARK FORMUL HETATM
REVDAT	3	09-JAN-89	2AZAB	1	JRNL
REVDAT	4	09-JAN-89	3RP2C	1	JRNL
REVDAT	2	09-JAN-89	3BCLA	3	SEQRES HETATM
REVDAT	2	09-JAN-89	1CBPA	1	SEQRES
REVDAT	2	09-JAN-89	3CLNA	1	JRNL
REVDAT	3	09-JAN-89	1ENLB	1	SEQRES
REVDAT	3	09-JAN-89	3ESTB	1	REMARK
REVDAT	2	09-JAN-89	1ETUA	1	SEQRES
REVDAT	2	09-JAN-89	4FD1A	3	HETATM CONECT
REVDAT	2	09-JAN-89	1HFMA	1	CRYST1
REVDAT	2	09-JAN-89	2HFMA	1	CRYST1
REVDAT	2	09-JAN-89	5TNCA	1	JRNL SEQRES

THE FOLLOWING DATA SETS HAVE BEEN REPLACED

OLD ENTRY	NEW ENTRY

NONE

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BROOKHAVEN ORDER FORM **(Please include a self-addressed label)**

1. Name _____ Date _____
   Address _____ Telephone _____
   _____ Electronic Mail _____
   _____

2. Documentation desired (no charge).

( ) Introduction to The Protein Data Bank (April 1988)
( ) Latest Newsletter
( ) Atomic Coordinate and Bibliographic Entry Format Description for DATAPRTP and DATAPRFI (January 1985)
( ) Current DATAPRTP Directory
( ) Sources of Visual Aids for Macromolecular Structure (January 1989)
( ) Non-Standard Entries (Structure Factors) Format Description
( ) Data Deposition Form

3. Please send the following magnetic tape items (from Table 1).

	6250 cpi	1600 cpi	TK50
DATAPRTP (coordinate tape)			
VAX/VMS BACKUP	( ) $288	( ) $367	( ) $312
VAX/VMS COPY	( ) $288	( ) $367	( ) $312
Unlabelled ASCII	( ) $288	( ) $367	
Unlabelled EBCDIC	( ) $288	( ) $367	
PDBPGMTP			
VAX/VMS COPY	( ) $288	( ) $288	( ) $312
NONST1TP			
Unlabelled ASCII	( ) $288	( ) $288	
Unlabelled EBCDIC	( ) $288	( ) $288	
NONST2TP			
Unlabelled ASCII	( ) $288	( ) $288	
Unlabelled EBCDIC	( ) $288	( ) $288	
NONST3TP			
Unlabelled ASCII	( ) $288	( ) $288	
Unlabelled EBCDIC	( ) $288	( ) $288	
NONST4TP			
Unlabelled ASCII	( ) $288	( ) $288	
Unlabelled EBCDIC	( ) $288	( ) $288	
NONST5TP			
Unlabelled ASCII	( ) $288	( ) $288	
Unlabelled EBCDIC	( ) $288	( ) $288	
NONST6TP			
Unlabelled ASCII	( ) $288	( ) $288	
Unlabelled EBCDIC	( ) $288	( ) $288	
NONST7TP			
Unlabelled ASCII	( ) $288	( ) $288	
Unlabelled EBCDIC	( ) $288	( ) $288	

Cost: _____

Special order items (described in Table 1): Please inquire at Brookhaven for availability and price.

YEAR88TP	CONECTTP	DSTNCETP
PART89TP	DGPLOTTP	FISIPLTP
BENDERTP	DIHDRLTP	PHIPSITP

(Continued)

4. Foreign air mail postage for tape items listed in 3 above mailed from Brookhaven to destinations outside the U.S. and Canada. A postage surcharge of $19 is required per item.

   Number of items x $19 = _____

5. Please send the following microfiche items (from Table 2). Each microfiche item costs $310, postage included. Correction fiche are free.

   Items: Cost: _____

6. Please send the following printed listings. Each listing costs $82, postage included.

   Ident Code(s) (From Table 5): Cost: _____

7. Total charges - **All prices are expected to be valid through September 30, 1989. After that date please confirm prices.**

   Magnetic tape charges (3 above) _____
   Foreign air mail postage charges (4 above) _____
   Microfiche charges (5 above) _____
   Printed listing charges (6 above) _____
   Bank charge
   No charge for checks drawn in U.S. dollars on U.S. bank, otherwise $10 _____

   TOTAL COST : _____

METHOD OF PAYMENT:

Brookhaven requires that either a written purchase order or check payable to

BROOKHAVEN NATIONAL LABORATORY

be received before service is provided. Order forms and purchase orders maybe sent by facsimile to (United States) 516-282-5815. The original order forms and purchase orders should also be sent to Brookhaven by mail.

( ) check is ( ) enclosed
( ) purchase order number _____ ( ) sent separately

Please return ORDER FORM to

BROOKHAVEN NATIONAL LABORATORY
Chemistry Department - Bldg. 555
Ms. F. C. Bernstein
Upton, New York 11973 USA
(516-282-4382)

It is advisable to send a photocopy of this order form directly to Brookhaven; experience shows that purchasing departments often do not forward this form with the order.