Protein Data Bank

Quarterly Newsletter

Number 62 October 1992

October Update

The Protein Data Bank (PDB) is pleased to announce the availability of atomic coordinate entries on CD ROM, and on-line from Brookhaven National Laboratory (BNL) by anonymous FTP and the PDB e-mail file server.

The latest October 1992 PDB release includes over 1,000 fully annotated coordinate entries together with more than 300 pre-release entries (see below). Both the fully annotated and pre-release coordinate entries are now accessible on-line from BNL. The PDB provides this on-line service free of charge. It is intended to meet the needs of users requiring access to a limited number of data entries. Individuals needing the complete release should continue to order the PDB on magnetic tape or on the newly available PDB CD ROM. Besides the atomic coordinates, the CD ROM includes the 290 available structure factor entries in compressed format.

The PDB Newsletter contains a Brookhaven Order Form with current prices that may be used to place an order for data on CD or tape. It is also possible to obtain copies of the Order Form in electronic form on-line from BNL, or in hard copy by contacting the PDB at the address given.

October 1992 PDB Release

1007 fully annotated atomic coordinate entries
(53 new atomic coordinate entries)

897 proteins, enzymes and viruses
89 DNA's
2 RNA's
9 tRNA's
10 carbohydrates

303 pre-release atomic coordinate entries
290 structure factor entries
23 NMR experimental entries

Atomic Coordinate Entries in Preparation

111 entries awaiting approval
43 entries on hold

To Contact the PDB

Protein Data Bank
Chemistry Department, Building 555
Brookhaven National Laboratory
Upton, NY 11973 USA

Telephone: +1 516-282-3629
Facsimile: +1 516-282-5751
e-mail: pdb@bnlchm.bitnet *or*
pdb@chm.chm.bnl.gov

Please include your telephone number, facsimile number, mailing address, and e-mail address in all correspondence.

Table of Contents

The tables on pp. 3-4 of this Newsletter are abbreviated and contain only new information. Full versions of all PDB tables are available from the PDB anonymous FTP and e-mail server or by normal mail upon request. Please see the Brookhaven Order Form on pp. 5-6 for requesting various PDB documentation.

PDB Staff News

We are pleased to announce that Nancy Oeder has joined the PDB staff as a member of the database production group. Nancy comes to us from Rensselaer Polytechnic Institute where she worked on the structure of gramicidin-A under the direction of Professor Bonnie Wallace. Nancy's appointment to the staff will help us in our work to ensure that the PDB remains current and that IDENT Codes are issued promptly for newly deposited entries.

Accessing PDB via Gopher

The PDB anonymous FTP directories now can be accessed *via* the Gopher service. The PDB Internet Gopher server allows access to coordinate entries through a window environment. While it is possible to identify and acquire a desired file by browsing through the directories, a full-index search will be on-line shortly. The Internet Gopher is a distributed document delivery service. It allows the novice user to access various types of data residing on multiple hosts. This service uses a client-server model in which users are presented with a hierarchical representation of directories of documents. The user is the "client" who makes queries to a "server" residing on another host on the Internet network. This system has been set up so that the user does not need to know the location of servers, since Gopher transparently handles the connections.

Information for setting up an Internet Gopher client including source files for different machines is available from the PDB anonymous FTP server. Those now running a Gopher client can access the PDB FTP site by including the following link:

Name= Protein Data Bank FTP site
Type = 1
Host = pdb.pdb.bnl.gov
Port = 70
Path = 1/

For more information or help in accessing the PDB via Gopher, you may send an e-mail message to oeder@bnl.gov.

File Server and Anonymous FTP

The PDB e-mail file server and anonymous FTP are available for all users. In addition to the atomic coordinate entry files, it is possible to access and download PDB general information and documentation. For more information about the e-mail server, send a message to:

fileserv@pb1.pdb.bnl.gov

and include the following text:

'send info your_e-mail_address'.

The PDB also has an anonymous FTP account available on the system pdb.pdb.bnl.gov with Internet address 130.199.144.1. Files may be transferred to and from this system using 'anonymous' as the FTP user name and your real user name as the password. Besides downloading data files and documentation, it is possible to upload any files you may wish to send to the PDB. Please note that those using VMS may need to place quotes around file names.

Anyone experiencing problems or having questions related to the above network services may send an e-mail message to skora@bnl.gov.

CD ROM Information

The October release and all future releases will be available on CD ROM in ISO 9660 format. To avoid confusion, the layout of the files on the CD ROM will mirror that of the tape distribution. The entry files themselves are in ASCII format and should be readable by any software able to read text files. The structure factor files will be compressed using the standard UNIX compress command.

There is currently no software provided on the CD ROM for accessing the data files, although we expect this to change in the future.

VAX/VMS systems currently do not directly support access to ISO 9660 formatted CD ROMs. The PDB CD ROM may be accessed on VAX/VMS systems by two approaches:

1. There is an ISO 9660 compliant device driver available from Digital Equipment Corporation (DEC) that allows direct access to the CD ROM (driver part number YT-GS001-01). Please contact your DEC sales representative for further information.

2. There is a public utility for accessing ISO 9660 CD ROMs, called CD_ACCESS, written by Peter Stockwell, University of Otago, New Zealand, that will allow all the files on the CD ROM to be copied to a magnetic disk drive. This utility can be obtained from the EMBL e-mail server (for further information you may contact DataLib@EMBL-Heidelberg.DE). When copying files using CD_ACCESS, be sure to use the /BINARY qualifier to the copy command.

Newly Released Entries

1LPE	APOLIPOPROTEIN E3(LDL RECEPTR-BNDNG DMN)	C.WILSON,D.AGARD
1LE2	APOLIPOPROTEIN E2(LDL RECEPTR-BNDNG DMN)	C.WILSON,D.AGARD
1LE4	APOLIPOPROTEIN E4(LDL RECEPTR-BNDNG DMN)	C.WILSON,D.AGARD
5ABP	L-ARABINOSE-BINDING PROTEIN/D-GALACTOSE	F.QUIOCHO,D.WILSON,N.VYAS
4CA2	CARBONIC ANHYDRASE II(HUMAN RECOMBINANT)	R.ALEXANDER,D.CHRISTIANSON
5CA2	CARBONIC ANHYDRASE II MUTANT(T200S)	R.ALEXANDER,D.CHRISTIANSON
12CA	CARBONIC ANHYDRASE II MUTANT(V121A)	S.NAIR,D.CHRISTIANSON
1CA3	CARBONIC ANHYDRASE II(HUMAN)(PH 5.7)	S.NAIR,D.CHRISTIANSON
1HCA	CARBONIC ANHYDRASE II(HUMAN)(PH 6.5)	S.K.NAIR,D.W.CHRISTIANSON
1HEA	CARBONIC ANHYDRASE II MUTANT(L198R)	S.K.NAIR,D.W.CHRISTIANSON
1HEB	CARBONIC ANHYDRASE II MUTANT(L198E)	S.K.NAIR,D.W.CHRISTIANSON
1HEC	CARBONIC ANHYDRASE II MUTANT(L198H)	S.K.NAIR,D.W.CHRISTIANSON
1HED	CARBONIC ANHYDRASE II MUTANT(1L98A)	S.K.NAIR,D.W.CHRISTIANSON
3CMS	CHYMOSIN B MUTANT(V111F)(BOVINE)	T.BLUNDELL ET AL.
1CGC	DNA(B,CCGGCGCCGG,SYNTHETIC)	U.HEINEMANN,M.BANSAL
1D58	DNA(TGATCA,SYNTH) HEPIADRIAMYCIN	B.L.D'ESTAINTOT,B.GALLOIS,T.BROWN,W.N.HUNTER
1D63	DNA(CGCAAATTTGCG,SYNTH)/BERENIL	D.BROWN,S.NEIDLE ET AL.
1D64	DNA(CGCGAATTCGCG,SYNTH)/PENTAMIDINE	EDWARDS,JENKINS,NEIDLE
1D65	DNA(CGCAAATTTGCG,SYNTHETIC)	K.EDWARDS,S.NEIDLE ET AL.
1D81	DNA(CGCAAATTIGCG,SYNTH): I=INOSINE	G.A.LEONARD,E.D.BOOTH,W.N.HUNTER,T.BROWN
1D82	DNA(GTCTAGAC,SYNTHETIC)	A.CERVI,B.LANGOLOIS D'ESTAINTOT,W.HUNTER
1OFX	RNA(GCG)D(TATACCC)/D(GGGTATACGC)OKAZAKI	EGLI,USMAN,ZHANG,RICH
8EST	ELASTASE(PORCINE)/GUANIDINIUM ISOCOUMARIN	R.RADHAKRISHNAN,E.MEYER JR
1GPA	GLYCOGEN PHOSPHORYLASE A(R STATE)	BARFORD,HU,JOHNSON
1GPB	GLYCOGEN PHOSPHORYLASE B	JOHNSON,ACHARYA,STUART
2GPB	GLYCOGEN PHOSPHORYLASE B/GLC	J.MARTIN,L.JOHNSON
3GPB	GLYCOGEN PHOSPHORYLASE B/G1P	J.MARTIN,L.JOHNSON
4GPB	GLYCOGEN PHOSPHORYLASE B/GFP	J.MARTIN,L.JOHNSON
5GPB	GLYCOGEN PHOSPHORYLASE B/GMP/GLC	J.MARTIN,L.JOHNSON
6GPB	GLYCOGEN PHOSPHORYLASE B/H2P	L.JOHNSON,K.ACHARYA
7GPB	GLYCOGEN PHOSPHORYLASE B(R STATE)/AMP	BARFORD,HU,JOHNSON
8GPB	GLYCOGEN PHOSPHORYLASE B(T STATE)/AMP	BARFORD,HU,JOHNSON
9GPB	GLYCOGEN PHOSPHORYLASE B(R STATE)	BARFORD,JOHNSON
1NIH	HEMOGLOBIN(ALPHA-NICKEL,BETA-FERROUS)	B.LUISI,B.LIDDINGTON
1PBX	HEMOGLOBIN(PAGOTHENIE BERNACCHII,CARBOMONOXY)	G.FERMI
1HSA	HISTOCOMPATIBILITY ANTIGEN(HUMAN)/HLA-B-2705	D.R.MADDEN,J.C.GORGA,J.L.STROMINGER,D.C.WILEY
1HHP	HIV-1 PROTEASE(ISOLATE BRU)	S.SPINELLI,P.M.ALZARI
1FAI	IGG2B FAB(KAPPA) FROM A MONOCLONAL ANTI-ARSONATE AB (STRUCTURE 1)	M.B.LASCOMBE,P.M.ALZARI,R.J.POLJAK,A.NISONOFF
2F19	IGG2B FAB(KAPPA) FROM A MONOCLONAL ANTI-ARSONATE AB (STRUCTURE 2)	M.B.LASCOMBE,P.M.ALZARI,R.J.POLJAK,A.NISONOFF
2ILA	INTERLEUKIN 1A(HUMAN)	B.GRAVES,M.HATADA
6I1B	INTERLEUKIN 1B(HUMAN)(NMR,AVERAGED STRC)	CLORE,WINGFIELD,GRONENBORN
7I1B	INTERLEUKIN 1B(HUMAN)(NMR,32 STRUCTURES)	CLORE,WINGFIELD,GRONENBORN
3IL8	INTERLEUKIN 8(HUMAN)	A.WLODAWER
2ZTA	LEUCINE ZIPPER(GCN4 TAP)	O'SHEA,KLEMM,KIM,ALBER
1MEE	MESENTERICOPEPTIDASE/EGLIN C	Z.DAUTER,C.BETZEL,K.WILSON
2PSG	PEPSINOGEN(PORCINE)	M.JAMES,A.SIELECKI
3RUB	RUBISCO(FORM III)	EISENBERG,SCHREUDER ET AL.
4RUB	RUBISCO(FORM IV)	EISENBERG,SCHREUDER ET AL.
1STP	STREPTAVIDIN-BIOTIN COMPLEX	DUPONT PROTEIN CRYSTALLOGRAPHY
4TIM	TIM(TRYPANOSOMA)/2-PHOSPHOGLYCERATE	NOBLE,WIERENGA,HOL ET AL.
5TIM	TIM(TRYPANOSOMA)/SULFATE	R.WIERENGA,W.HOL ET AL.
6TIM	TIM(TRYPANOSOMA)/GLYCEROL-3-PHOSPHATE	NOBLE,WIERENGA,HOL ET AL.
2APD	APOLIPOPROTEIN D (MODEL)	M.C.PEITSCH,M.S.BOGUSKI

Newly Received Depositions

2AT2	ASPARTATE TRANSCARBAMOYLASE
1BIA	BIOTIN REPRESSOR
1BIB	BIOTIN REPRESSOR/BIOTINYLATED LYSINE COMPLEX
1APO	BLOOD COAGULATION FACTOR X(BOVINE)N-TERMINAL EGF-LIKE MODULE(NMR,13 STRUCTURES)
2BBM	CALMODULIN/CALMODULIN-BINDING DMN OF RABBIT SKELETAL MYOSIN LT CHAIN KINASE(NMR)
1CAN	CARBONIC ANHYDRASE(HUMAN) (REFINED BY TNT)
1CAO	CARBONIC ANHYDRASE(HUMAN) (REFINED BY PROFFT)
1CAH	CARBONIC ANHYDRASE(HUMAN)/BICARBONATE
1CPS	CARBOXYPEPTIDASE A/SULFODIIMINE INHIBITOR
3CD4	CD4(HUMAN) (RESIDUES 1-182)
3GCR	GAMMA-IIIB CRYSTALLIN(BOVINE)
2CPL	CYCLOPHILIN(HUMAN T CELL)
1PHA	CYTOCHROME P450CAM(PSEUDOMONAS PUTIDA) CAMPHOR MONOXYGENASE/CAMPHOR(PLUS ISOMER)
1PHB	CYTOCHROME P450CAM(PSEUDOMONAS PUTIDA)CAMPHOR MONOXYGENASE/CAMPHOR(MINUS ISOMER)
1PHC	CYTOCHROME P450CAM(PSEUDOMONAS PUTIDA) CAMPHOR MONOXYGENASE
1PHD	CYTOCHROME P450CAM(P.PUTIDA) CAMPHOR MONOXYGENASE/2-PHENYL IMIDAZOLE(STRUCT 1)
1PHE	CYTOCHROME P450CAM(P.PUTIDA) CAMPHOR MONOXYGENASE/2-PHENYL IMIDAZOLE(STRUCT 2)
1PHF	CYTOCHROME P450CAM(PSEUDOMONAS PUTIDA) CAMPHOR MONOXYGENASE/4-PHENYL IMIDAZOLE
1PHG	CYTOCHROME P450CAM(PSEUDOMONAS PUTIDA) CAMPHOR MONOXYGENASE/METYAPONE
1D67	DNA(TGATCA)/IDARUBICIN
1D80	DNA(CGCGAATTGGCG)
1D85	DNA(CGC(O6-ETHYL-G)AATTCGCG)/NETROPSIN (MG^{++} FORM)
1D86	DNA(CGCGAATTCGCG)/NETROPSIN COMPLEX (MG^{++} FORM)
1D87	DNA-RNA CHIMERIC DUPLEX [R(G)D(CGTATACGC)]2 (RNA SYNTHETIC)
1D88	DNA-RNA CHIMERIC DUPLEX [D(GCGT)R(A)D(TACGC)] (RNA SYNTHETIC)
1EZM	ELASTASE ZINC METALLOPROTEASE
1END	T4 ENDONUCLEASE V
1EED	ENDOTHIAPEPSIN/PD125754
1LTS	HEAT LABILE ENTEROTOXIN (LT); CHOLERA-LIKE TOXIN, AB5 TOXIN
1LTT	HEAT LABILE ENTEROTOXIN (LT); CHOLERA-LIKE TOXIN, AB5 TOXIN/LACTOSE
1FLV	FLAVODOXIN(ANABAENA 7120)
1OFV	FLAVODOXIN(ANACYSTIS NIDULANS,OXIDIZED)
1FBA	FRUCTOSE-1,6-BISPHOSPHATE ALDOLASE
1GRD	GLUCOCORTICOID RECEPTOR DNA-BINDING DOMAIN
1AAZ	GLUTAREDOXIN
1ABA	GLUTAREDOXIN MUTANT(V15G,Y16P)
1GRC	GLYCINAMIDE RIBONUCLEOTIDE TRANSFORMYLASE
1PYG	GLYCOGEN PHOSPHORYLASE (PYRIDOXAL-5'-PYROPHOSPHORYL DERIV.)
1HAM	HEMOGLOBIN(HUMAN) AALBORG
1DXT	HEMOGLOBIN(HUMAN,DEOXY) (EXTRA N-TERM MET)
1DXV	HEMOGLOBIN(HUMAN,DEOXY) MUTANT(V1A)
1DXU	HEMOGLOBIN(HUMAN,DEOXY) MUTANT(V1M)
1MHA	HISTOCOMPATIBILITY ANTIGEN (H-2K(B))(MOUSE CLASS I)
1AAF	HIV-1 NUCLEOCAPSID PROTEIN, MN STRAIN
1BBO	HUMAN ENHANCER BINDING PROTEIN MUTANT(CIIABU)(NMR,60 STRUCTURES)
1IGM	IMMUNOGLOBULIN M(HUMAN) FV FRAGMENT
1HIL	IGG2A FAB FRAGMENT (FAB 17/9)
1HIM	IGG2A FAB FRAGMENT (FAB 17/9)
1HIN	IGG2A FAB FRAGMENT (FAB 17/9)
1HIU	INSULIN(HUMAN)(NMR)
1HIS	INSULIN(HUMAN) DES-PENTAPEPTIDE(NMR)
1HIT	INSULIN(HUMAN) MUTANT(F24G)(NMR)
1BBN	INTERLEUKIN 4(HUMAN)(NMR)
1KST	KISTRIN (NMR)
9LDB	LACTATE DEHYDROGENASE/NADH
9LDT	LACTATE DEHYDROGENASE/NADH/OXAMATE
1LLD	OXIDOREDUCTASE(CHOH (D)-NAD (A))L-LACTATE DEHYDROGENASE MUTANT(C2105)/NADH
1LAA	LYSOZYME(HUMAN) MUTANT (D53E)
1TAY	LYSOZYME(HUMAN) MUTANT(Y63A)
1TBY	LYSOZYME(HUMAN) MUTANT(Y63L)
1TCY	LYSOZYME(HUMAN) MUTANT(Y63F)
1TDY	LYSOZYME(HUMAN) MUTANT(Y63W)
1L00	LYSOZYME(T4) MUTANT(Q105A)
1L98	LYSOZYME(T4) MUTANT(Q105E)
1L99	LYSOZYME(T4) MUTANT(Q105G)
1LYE	LYSOZYME(T4) MUTANT(C54T,T59V,C97A)
1LYF	LYSOZYME(T4) MUTANT(C54T,T59S,C97A)
1LYG	LYSOZYME(T4) MUTANT(C54T,T59N,C97A)
1LYH	LYSOZYME(T4) MUTANT(C54T,T59G,C97A)
1LYI	LYSOZYME(T4) MUTANT(C54T,T59D,C97A)
1LYJ	LYSOZYME(T4) MUTANT(C54T,T59A,C97A)
2MSB	MANNOSE-BINDING PROTEIN A, LECTIN DOMAIN/CALCIUM AND MAN GLCNAC2ASN GLYCOPEPTIDE
2AAH	METHANOL DEHYDROGENASE(METHYLOPHILIS W3A1)
1BBK	METHYLAMINE DEHYDROGENASE(PARACOCCUS DENITRIFICANS)
1MTA	METHYLAMINE DEHYDROGENASE/AMICYANIN/CYTOCHROME C551I
1SWM	MYOGLOBIN(SPERM WHALE,FERRIC)/AZIDE
1PPN	PAPAIN CYS-25 WITH BOUND ATOM
1POL	BETA SUBUNIT OF POL III
2PF1	PROTHROMBIN FRAGMENT 1(RESIDUES 1-156)
1BRQ	APO RETINOL BINDING PROTEIN
1BRP	HOLO RETINOL BINDING PROTEIN
2RN2	RIBONUCLEASE H(ESCHERICHIA COLI)
1RGK	RIBONUCLEASE T1 MUTANT(E46Q)/2'-AMP
2AAD	RIBONUCLEASE T1 MUTANT(H40K)/GUANYLIC ACID
1APG	RICIN A CHAIN (CASTOR PLANT)/ADENYL(3'-->5')GUANOSINE
1FMP	RICIN A CHAIN (CASTOR PLANT)/FORMYCIN 5'-MONOPHOSPHATE
1RBA	RUBISCO (RIBULOSE-1,5-BISPHOSPHATE CARBOXYLASE/OXYGENASE) MUTANT(D193N)
1SAS	SARCOPLASMIC CALCIUM-BINDING PROTEIN (ISOTYPE II)
1PTS	STREPTAVIDIN/PEPTIDE (FSHPQNT)
1SUB	SUBTILISIN BPN'CRB-S3 MUTANT(N218S,S221C)
1SUC	SUBTILISIN BPN'CRB-S3 MUTANT(N218S,S221C,M50F,Y217K)
1SUD	SUBTILISIN BPN'CRB-S3 MUTANT(M50F,Y217K,N218S,S221C)
1BAL	DIHYDROLIPOAMIDE SUCCINYLTRANSFERASE, E3-BINDING DOMAIN (NMR)
1TLK	TELOKIN(TURKEY)
1ETR	E-THROMBIN(BOVINE)/MQPA
1ETS	E-THROMBIN(BOVINE)/NAPAP
1ETT	E-THROMBIN(BOVINE)/TAPAP
1TGI	TRANSFORMING GROWTH FACTOR BETA 2
1BPU	TRYPSIN INHIBITOR(BOVINE,PANCREAS) MUTANT(N43G)
1BBI	TRYPSIN/CHYMOTRYPSIN BOWMAN-BIRK INHIBITOR(NMR,AVERAGE)
2BBI	TRYPSIN/CHYMOTRYPSIN BOWMAN-BIRK INHIBITOR(NMR,16 STRUCTURES)
1TYA	TYROSYL TRNA SYNTHETASE MUTANT(T51A)
1TYB	TYROSYL TRNA SYNTHETASE MUTANT(T51G)
1TYC	TYROSYL TRNA SYNTHETASE MUTANT(T51P)
1TYD	TYROSYL TRNA SYNTHETASE MUTANT(T51S)
1UDP	URIDINE DIPHOSPHOGALACTOSE-4-EPIMERASE
1VAB	MHC CLASS I H-2K\UB\D AND SENDAI VIRUS
1VAA	MHC CLASS I H-2K\UB\D AND VESICULAR STOMATITIS VIRUS
2SNV	SINDBIS VIRUS CAPSID PROTEIN
1CDA	MEMBRANE-BOUND GYLCOPROTEIN CD40/LIGAND MODEL
1ITA	INTERLEUKIN-1 ALPHA(HUMAN) MODEL
2PAI	PROTEIN INHIBITOR C MODEL 2

BROOKHAVEN ORDER FORM

Name of User _____ Date _____

Address _____ Phone _____

_____ E-mail _____

_____ Fax # _____

DATAPRTP

(all available coordinate entries, bibliographic entries, and some computer programs)

	6250cpi	1600cpi	TK50	1/4"	8mm	4mm
VAX/VMS *backup*	[ ] $492	[ ] $955	[ ] $653			
VAX/VMS *copy*	[ ] $492	[ ] $955	[ ] $653			
Unlabeled *ASCII*	[ ] $492	[ ] $955				
Unlabeled *EBCDIC*	[ ] $492	[ ] $955				
SGI/SUN/IBM/E&S UNIX *tar*				[ ] $371	[ ] $340	[ ] $354
CD ROM*	[ ] $223					

* includes DATAPRTP and all structure factor entries NONST1TP through NONST10TP.

PDBPGMTP

(all computer programs and miscellaneous files)

	6250cpi	1600cpi	TK50	1/4"	8mm	4mm
VAX/VMS *copy*	[ ] $359	[ ] $359	[ ] $421			
SGI/SUN/IBM/E&S UNIX *tar*				[ ] $371	[ ] $340	[ ] $354

STRUCTURE FACTOR ENTRIES

(experimental diffraction data)

Choose tape(s): [ ] NONST1TP [ ] NONST2TP [ ] NONST3TP [ ] NONST4TP
[ ] NONST5TP [ ] NONST6TP [ ] NONST7TP [ ] NONST8TP
[ ] NONST9TP [ ] NONST10TP

Choose one format for selection(s) shown above:

	6250cpi	1600cpi	TK50	1/4"	8mm	4mm
VAX/VMS *backup*	[ ] $359	[ ] $359	[ ] $421			
VAX/VMS *copy*	[ ] $359	[ ] $359	[ ] $421			
Unlabeled *ASCII*	[ ] $359	[ ] $359				
Unlabeled *EBCDIC*	[ ] $359	[ ] $359				
SGI/SUN/IBM/E&S UNIX *tar*				[ ] $371	[ ] $340	[ ] $354
CD ROM*	[ ] $223					

* includes DATAPRTP and all structure factor entries NONST1TP through NONST10TP.

NMRRS1TP

(NMR experimental data entries)

	6250cpi	1600cpi	TK50	1/4"	8mm	4mm
VAX/VMS *backup*	[ ] $359	[ ] $359	[ ] $421			
VAX/VMS *copy*	[ ] $359	[ ] $359	[ ] $421			
Unlabeled *ASCII*	[ ] $359	[ ] $359				
Unlabeled *EBCDIC*	[ ] $359	[ ] $359				
SGI/SUN/IBM/E&S UNIX *tar*				[ ] $371	[ ] $340	[ ] $354

TOTAL CHARGES

Magnetic tape charges ..... $ _____

Foreign air mail charges ($19 per tape item mailed outside U.S. and Canada) ..... $ 19.00 (if applicable)

(CD-ROM excluded from $19.00 foreign air mail charges)

(Prices are valid through September 30, 1993)

TOTAL COST ..... $ _____

BROOKHAVEN ORDER FORM

PRINTED DOCUMENTATION (no charge)

[ ] Atomic Coordinate and Bibliographic Entry Format Description for DATAPRTP (Feb. 1992)
[ ] Complete List of Bibliographic Entries
[ ] Current DATAPRTP Directory
[ ] Data Deposition Form
[ ] Detailed Contents and Format Description for Each Structure Factor Entry
[ ] Latest Newsletter
[ ] Sources of Visual Aids for Macromolecular Structure (Feb. 1990)
[ ] User Guide (Summer 1992)
[ ] Full Tables

PLACING AN ORDER

(Prices are valid until September 30, 1993)

We *must* receive the following three items before service is provided (it is best to send all items together *via* mail -- facsimile orders are not acceptable):

1. completed order form
2. mailing label indicating exact shipping address
3. payment (use one of the methods listed below):

⇒ Check payable to Brookhaven National Laboratory in U.S. dollars and drawn on a U.S. bank. Foreign checks are not acceptable.

⇒ Original hardcopy of purchase order payable to Brookhaven National Laboratory. After your order is processed, our Fiscal Division will invoice you.

⇒ Wire transfer. In order to use wire transfer capabilities, we must ***first*** receive an original purchase order from you. After you receive our invoice, your bank should send a wire transfer to:

Bank name: Morgan Guarantee Trust Company of New York
Acct. name: Brookhaven National Laboratory
Cust. Acct. : 076-51-912

Please mail all required items to:

Protein Data Bank Orders
Chemistry Department, Building 555
Brookhaven National Laboratory
Upton, NY 11973 USA

Affiliated Centers

Eleven affiliated centers offer DATAPRTP for distribution. These centers 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, Ontario, Canada
Roger Gough
613-993-3294
cansnd@vm.nrc.ca

CAOS/CAMM
Dutch National Facility for Computer Assisted Chemistry
Nijmegen, The Netherlands
Jan Noordik
31-80-653386
noordik@caos.caos.kun.nl

CINECA
NE Italy Interuniversity Computing Center
Caselecchio di Reno (BO), Italy
Salvatore Rago
39-51-598411
argo@icineca.bitnet

EMBL
European Molecular Biology Laboratory
Heidelberg, Germany
Peter Rice
49-6221-387-247
peter.rice@embl-heidelberg.de

* JAICI
Japan Association for International Chemical Information
Tokyo, Japan
Hideaki Chihara
81-3-816-3389

NCSA
National Center for Supercomputing Applications
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