



Full wwPDB X-ray Structure Validation Report

Feb 27, 2014 – 06:53 AM GMT

PDB ID : 1K06
Title : Crystallographic Binding Study of 100 mM N-benzoyl-N'-beta-D-glucopyranosylurea to glycogen phosphorylase b
Authors : Oikonomakos, N.G.; Kosmopoulou, M.; Zographos, S.E.; Leonidas, D.D.; Chrysina, E.D.; Somsak, L.; Nagy, V.; Praly, J.P.; Docsa, T.; Toth, B.; Gergely, P.
Deposited on : 2001-09-18
Resolution : 1.80 Å(reported)

This is a full wwPDB validation report for a publicly released PDB entry.
We welcome your comments at validation@mail.wwpdb.org
A user guide is available at <http://wwpdb.org/ValidationPDFNotes.html>

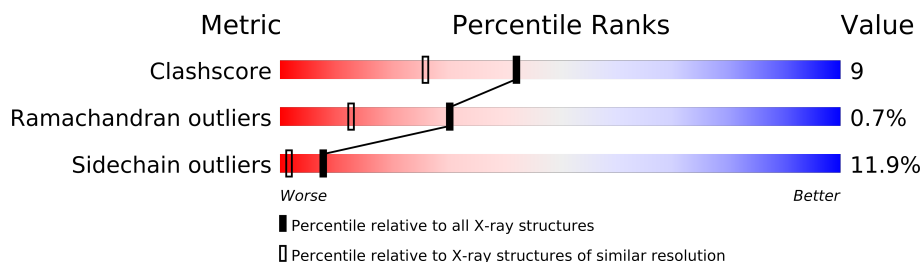
The following versions of software and data (see [references](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.15 2013
Xtriage (Phenix) : **NOT EXECUTED**
EDS : **NOT EXECUTED**
Percentile statistics : 21963
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)
Validation Pipeline (wwPDB-VP) : stable22683

1 Overall quality at a glance

The reported resolution of this entry is 1.80 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
Clashscore	79885	4461 (1.80-1.80)
Ramachandran outliers	78287	4404 (1.80-1.80)
Sidechain outliers	78261	4403 (1.80-1.80)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments on the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density.

Note EDS was not executed.

Mol	Chain	Length	Quality of chain
1	A	842	

2 Entry composition i

There are 4 unique types of molecules in this entry. The entry contains 6909 atoms, of which 0 are hydrogen and 0 are deuterium.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

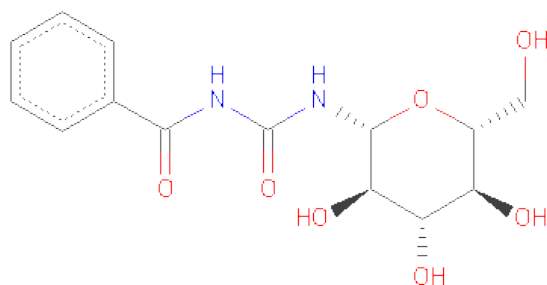
- Molecule 1 is a protein called Glycogen Phosphorylase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	807	6560	4182	1155	1194	29	0	0	0

There is a discrepancy between the modelled and reference sequences:

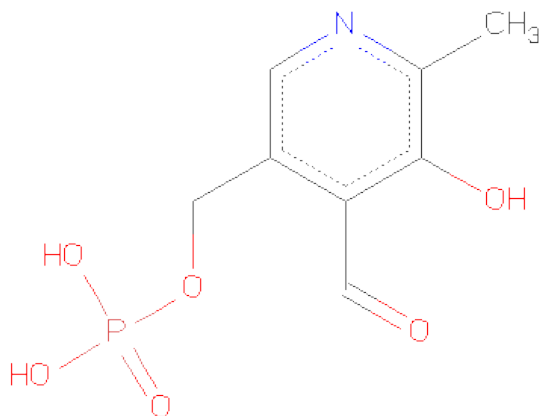
Chain	Residue	Modelled	Actual	Comment	Reference
A	380	ILE	LEU	SEE REMARK 999	UNP P00489

- Molecule 2 is N-BENZOYL-N'-BETA-D-GLUCOPYRANOSYLUREA (three-letter code: BZD) (formula: C₁₄H₁₈N₂O₇).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	N	O		
2	A	1	23	14	2	7	0	0
2	A	1	23	14	2	7	0	0

- Molecule 3 is PYRIDOXAL-5'-PHOSPHATE (three-letter code: PLP) (formula: $C_8H_{10}NO_6P$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	N	O	P		
3	A	1	15	8	1	5	1	0	0

- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	288	Total	O	0	0
			288	288		

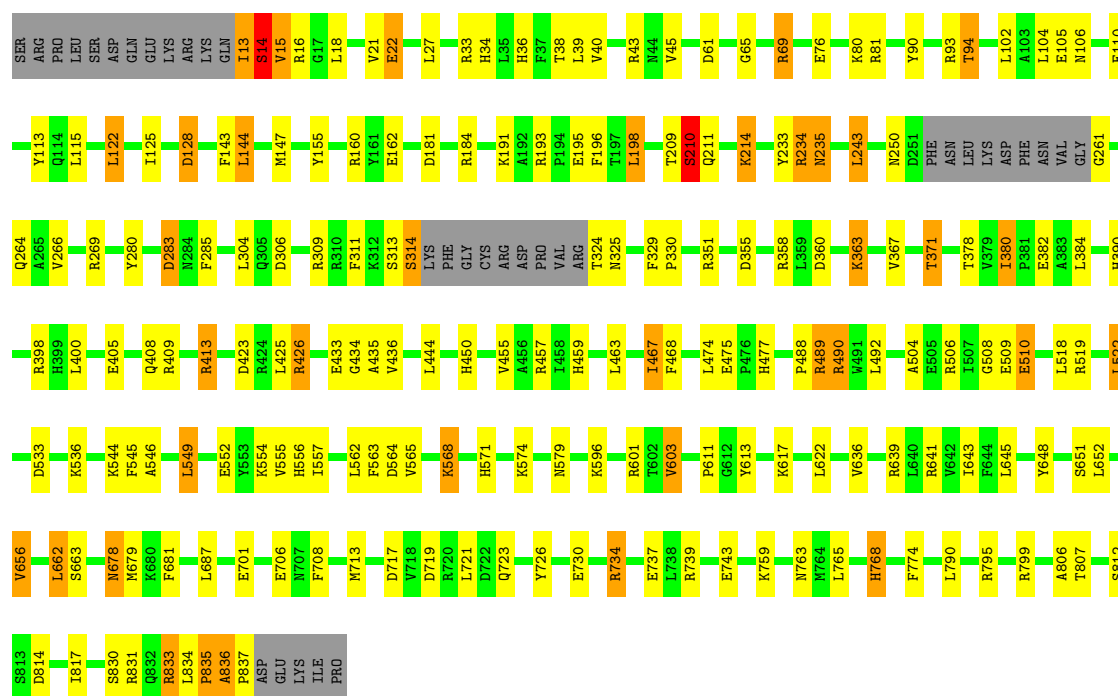
3 Residue-property plots

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red dot above a residue indicates a poor fit to the electron density ($RSRZ > 2$). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

Note EDS was not executed.

• Molecule 1: Glycogen Phosphorylase

Chain A: 



4 Data and refinement statistics

Xtriage (Phenix) and EDS were not executed - this section will therefore be incomplete.

Property	Value	Source
Space group	P 43 21 2	Depositor
Cell constants a, b, c, α , β , γ	128.65Å 128.65Å 116.75Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	27.84 – 1.80	Depositor
% Data completeness (in resolution range)	97.7 (27.84-1.80)	Depositor
R_{merge}	(Not available)	Depositor
R_{sym}	3.80	Depositor
Refinement program	X-PLOR 3.851	Depositor
R, R_{free}	0.215 , 0.246	Depositor
Estimated twinning fraction	No twinning to report.	Xtriage
Total number of atoms	6909	wwPDB-VP
Average B, all atoms (Å ²)	31.0	wwPDB-VP

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: BZD, PLP

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	A	0.39	0/6707	0.60	0/9078

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Close contacts

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogens added by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, and the number in parentheses is this value normalized per 1000 atoms of the molecule in the chain. The Symm-Clashes column gives symmetry related clashes, in the same way as for the Clashes column.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	6560	0	6506	119	0
2	A	46	0	36	0	0
3	A	15	0	7	0	0
4	A	288	0	0	15	0
All	All	6909	0	6549	119	0

Clashscore is defined as the number of clashes calculated for the entry per 1000 atoms (including hydrogens) of the entry. The overall clashscore for this entry is 9.

All (119) close contacts within the same asymmetric unit are listed below.

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:519:ARG:HH22	1:A:807:THR:HG22	1.35	0.89
1:A:15:VAL:HG12	1:A:15:VAL:O	1.80	0.80
1:A:571:HIS:HB2	1:A:574:LYS:HG3	1.63	0.80
1:A:545:PHE:CZ	1:A:656:VAL:HG13	2.16	0.80
1:A:739:ARG:O	1:A:743:GLU:HG3	1.84	0.78
1:A:65:GLY:O	1:A:69:ARG:HG2	1.83	0.77
1:A:233:TYR:HB2	1:A:489:ARG:HD3	1.65	0.76
1:A:678:ASN:HD22	1:A:679:MET:H	1.30	0.76
1:A:455:VAL:H	1:A:459:HIS:HD2	1.33	0.76
1:A:15:VAL:HG13	4:A:1022:HOH:O	1.86	0.75
1:A:519:ARG:NH2	1:A:807:THR:HG22	2.02	0.75
1:A:235:ASN:H	1:A:235:ASN:HD22	1.36	0.72
1:A:250:ASN:HA	1:A:269:ARG:HH21	1.55	0.72
1:A:261:GLY:HA3	4:A:1182:HOH:O	1.89	0.71
1:A:378:THR:OG1	1:A:380:ILE:HG12	1.91	0.69
1:A:15:VAL:CG1	1:A:15:VAL:O	2.39	0.69
1:A:198:LEU:HD21	1:A:309:ARG:NH1	2.08	0.68
1:A:13:ILE:O	1:A:14:SER:HB2	1.95	0.67
1:A:795:ARG:O	1:A:799:ARG:HG3	1.95	0.66
1:A:568:LYS:HG3	1:A:574:LYS:HD2	1.79	0.65
1:A:413:ARG:HG2	1:A:413:ARG:HH21	1.62	0.64
1:A:15:VAL:HG11	1:A:509:GLU:CD	2.18	0.64
1:A:360:ASP:OD1	1:A:363:LYS:HB2	2.00	0.62
1:A:160:ARG:HB2	1:A:243:LEU:HB3	1.82	0.61
1:A:678:ASN:HD22	1:A:679:MET:N	1.98	0.61
1:A:355:ASP:OD1	1:A:398:ARG:HD3	2.00	0.60
1:A:329:PHE:HB3	1:A:330:PRO:HD3	1.84	0.59
1:A:16:ARG:HB3	1:A:105:GLU:HB3	1.82	0.59
1:A:719:ASP:O	1:A:723:GLN:HG2	2.02	0.59
1:A:457:ARG:HH12	1:A:701:GLU:CD	2.06	0.59
1:A:128:ASP:OD2	1:A:651:SER:HB3	2.03	0.58
1:A:678:ASN:ND2	1:A:679:MET:H	1.99	0.58
1:A:726:TYR:OH	1:A:774:PHE:HB2	2.04	0.58
1:A:367:VAL:O	1:A:371:THR:HG23	2.04	0.57
1:A:390:HIS:HD2	4:A:1255:HOH:O	1.87	0.57
1:A:713:MET:HB3	1:A:717:ASP:HB2	1.86	0.56
1:A:34:HIS:HE1	1:A:61:ASP:OD1	1.88	0.56
1:A:235:ASN:HD22	1:A:235:ASN:N	2.00	0.55
1:A:34:HIS:HD2	1:A:38:THR:OG1	1.90	0.55
1:A:93:ARG:NH2	4:A:1228:HOH:O	2.40	0.54
1:A:351:ARG:O	1:A:355:ASP:HB2	2.08	0.54
1:A:15:VAL:HG12	4:A:1150:HOH:O	2.07	0.54
1:A:636:VAL:O	1:A:639:ARG:HD3	2.08	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:380:ILE:HD12	4:A:1267:HOH:O	2.08	0.53
1:A:678:ASN:HD22	1:A:678:ASN:N	2.07	0.53
1:A:510:GLU:HB2	4:A:1179:HOH:O	2.07	0.53
1:A:235:ASN:HA	1:A:833:ARG:HG3	1.90	0.52
1:A:413:ARG:NH2	1:A:413:ARG:HG2	2.22	0.52
1:A:144:LEU:HD12	1:A:147:MET:CE	2.41	0.51
1:A:555:VAL:HG23	1:A:556:HIS:N	2.24	0.51
1:A:730:GLU:O	1:A:734:ARG:HG2	2.10	0.51
1:A:15:VAL:HG21	1:A:509:GLU:OE1	2.12	0.50
1:A:122:LEU:HA	1:A:125:ILE:HD12	1.94	0.50
1:A:285:PHE:HD1	1:A:382:GLU:HB2	1.76	0.49
1:A:81:ARG:HG2	1:A:155:TYR:HE2	1.78	0.49
1:A:463:LEU:HA	1:A:467:ILE:HG22	1.94	0.49
1:A:836:ALA:HB1	1:A:837:PRO:CD	2.42	0.49
1:A:475:GLU:HB3	1:A:477:HIS:CE1	2.48	0.49
1:A:522:LEU:HD13	1:A:806:ALA:CB	2.42	0.49
1:A:648:TYR:HA	1:A:652:LEU:HD23	1.95	0.49
1:A:285:PHE:CD1	1:A:382:GLU:HB2	2.47	0.48
1:A:367:VAL:O	1:A:371:THR:CG2	2.62	0.48
1:A:313:SER:O	1:A:314:SER:C	2.51	0.48
1:A:143:PHE:O	1:A:147:MET:HE2	2.15	0.47
1:A:835:PRO:O	1:A:836:ALA:O	2.32	0.47
1:A:306:ASP:OD2	1:A:309:ARG:NH1	2.48	0.47
1:A:14:SER:HB3	1:A:16:ARG:HG3	1.96	0.47
1:A:504:ALA:HA	1:A:508:GLY:O	2.15	0.47
1:A:181:ASP:OD2	1:A:184:ARG:CZ	2.63	0.47
1:A:280:TYR:HB3	4:A:1223:HOH:O	2.15	0.47
1:A:65:GLY:O	1:A:69:ARG:CG	2.59	0.46
1:A:834:LEU:O	1:A:836:ALA:N	2.49	0.46
1:A:601:ARG:HD2	4:A:1028:HOH:O	2.14	0.46
1:A:36:HIS:O	1:A:40:VAL:HA	2.15	0.46
1:A:678:ASN:N	1:A:678:ASN:ND2	2.62	0.46
1:A:81:ARG:HG2	1:A:155:TYR:CE2	2.52	0.45
1:A:93:ARG:O	1:A:490:ARG:NH2	2.40	0.45
1:A:467:ILE:HG23	1:A:468:PHE:CG	2.51	0.45
1:A:488:PRO:O	1:A:492:LEU:HB3	2.16	0.45
1:A:506:ARG:NH1	1:A:533:ASP:OD2	2.50	0.45
1:A:737:GLU:HG3	4:A:1135:HOH:O	2.16	0.45
1:A:763:ASN:HD22	1:A:768:HIS:CE1	2.35	0.45
1:A:434:GLY:O	1:A:435:ALA:C	2.56	0.44
1:A:13:ILE:O	1:A:14:SER:CB	2.64	0.44
1:A:80:LYS:HE3	1:A:330:PRO:O	2.17	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:489:ARG:NH2	1:A:814:ASP:OD2	2.50	0.44
1:A:759:LYS:O	1:A:763:ASN:HB2	2.18	0.44
1:A:450:HIS:HD2	4:A:1176:HOH:O	2.01	0.43
1:A:546:ALA:HA	1:A:557:ILE:HD11	2.00	0.43
1:A:564:ASP:HB3	1:A:603:VAL:HA	2.00	0.43
1:A:522:LEU:HD12	1:A:522:LEU:HA	1.91	0.43
1:A:405:GLU:O	1:A:409:ARG:HG3	2.18	0.43
1:A:522:LEU:HD13	1:A:806:ALA:HB3	2.00	0.43
1:A:195:GLU:HG2	1:A:196:PHE:CD1	2.53	0.43
1:A:423:ASP:O	1:A:426:ARG:HG3	2.18	0.43
1:A:110:GLU:O	1:A:113:TYR:HB3	2.19	0.43
1:A:94:THR:CG2	4:A:1065:HOH:O	2.67	0.42
1:A:678:ASN:ND2	1:A:679:MET:N	2.63	0.42
1:A:562:LEU:HD21	1:A:662:LEU:HB2	2.00	0.42
1:A:21:VAL:CG2	1:A:22:GLU:N	2.82	0.42
1:A:304:LEU:HA	1:A:304:LEU:HD23	1.82	0.42
1:A:663:SER:HB2	1:A:681:PHE:CG	2.54	0.42
1:A:571:HIS:HB2	1:A:574:LYS:CG	2.43	0.42
1:A:214:LYS:HB3	1:A:214:LYS:HE2	1.57	0.42
1:A:94:THR:HG22	4:A:1065:HOH:O	2.20	0.42
1:A:730:GLU:O	1:A:734:ARG:CG	2.68	0.41
1:A:311:PHE:O	1:A:314:SER:HB2	2.20	0.41
1:A:450:HIS:HE1	4:A:1119:HOH:O	2.03	0.41
1:A:557:ILE:HD12	1:A:563:PHE:CZ	2.56	0.41
1:A:233:TYR:CZ	1:A:234:ARG:HD3	2.55	0.41
1:A:209:THR:O	1:A:210:SER:C	2.58	0.41
1:A:13:ILE:HD12	1:A:106:ASN:OD1	2.20	0.41
1:A:283:ASP:HB3	1:A:571:HIS:CE1	2.56	0.41
1:A:549:LEU:HD12	1:A:549:LEU:HA	1.81	0.41
1:A:21:VAL:HG23	1:A:22:GLU:N	2.35	0.41
1:A:763:ASN:HD22	1:A:768:HIS:HE1	1.68	0.40
1:A:641:ARG:HG3	4:A:1197:HOH:O	2.20	0.40
1:A:817:ILE:HA	1:A:817:ILE:HD13	1.94	0.40
1:A:611:PRO:HA	1:A:617:LYS:HE3	2.03	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone ⓘ

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution. The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	A	801/842 (95%)	762 (95%)	33 (4%)	6 (1%)	30 13

All (6) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	14	SER
1	A	210	SER
1	A	835	PRO
1	A	836	ALA
1	A	43	ARG
1	A	554	LYS

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution. The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	698/731 (96%)	615 (88%)	83 (12%)	8 1

All (83) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	13	ILE
1	A	14	SER
1	A	15	VAL
1	A	18	LEU
1	A	22	GLU
1	A	27	LEU
1	A	33	ARG
1	A	39	LEU

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Mol	Chain	Res	Type
1	A	45	VAL
1	A	69	ARG
1	A	76	GLU
1	A	90	TYR
1	A	94	THR
1	A	102	LEU
1	A	104	LEU
1	A	115	LEU
1	A	122	LEU
1	A	128	ASP
1	A	144	LEU
1	A	162	GLU
1	A	191	LYS
1	A	193	ARG
1	A	198	LEU
1	A	210	SER
1	A	211	GLN
1	A	214	LYS
1	A	234	ARG
1	A	235	ASN
1	A	243	LEU
1	A	264	GLN
1	A	266	VAL
1	A	283	ASP
1	A	314	SER
1	A	324	THR
1	A	325	ASN
1	A	358	ARG
1	A	363	LYS
1	A	371	THR
1	A	380	ILE
1	A	384	LEU
1	A	400	LEU
1	A	408	GLN
1	A	413	ARG
1	A	425	LEU
1	A	426	ARG
1	A	433	GLU
1	A	436	VAL
1	A	444	LEU
1	A	467	ILE
1	A	474	LEU

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Mol	Chain	Res	Type
1	A	489	ARG
1	A	490	ARG
1	A	510	GLU
1	A	518	LEU
1	A	522	LEU
1	A	536	LYS
1	A	544	LYS
1	A	549	LEU
1	A	552	GLU
1	A	565	VAL
1	A	568	LYS
1	A	579	ASN
1	A	596	LYS
1	A	603	VAL
1	A	613	TYR
1	A	622	LEU
1	A	643	ILE
1	A	645	LEU
1	A	656	VAL
1	A	662	LEU
1	A	678	ASN
1	A	687	LEU
1	A	706	GLU
1	A	708	PHE
1	A	721	LEU
1	A	734	ARG
1	A	765	LEU
1	A	768	HIS
1	A	790	LEU
1	A	812	SER
1	A	830	SER
1	A	831	ARG
1	A	833	ARG

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (15) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	34	HIS
1	A	235	ASN
1	A	264	GLN
1	A	325	ASN
1	A	412	ASN

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Mol	Chain	Res	Type
1	A	450	HIS
1	A	459	HIS
1	A	481	ASN
1	A	484	ASN
1	A	560	ASN
1	A	566	GLN
1	A	579	ASN
1	A	678	ASN
1	A	763	ASN
1	A	832	GLN

5.3.3 RNA ⓘ

There are no RNA chains in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

5.6 Ligand geometry ⓘ

3 ligands are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the chemical component dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
2	BZD	A	920	-	24,24,24	1.81	6 (25%)	33,33,33	1.66	6 (18%)
2	BZD	A	998	-	24,24,24	1.68	5 (20%)	33,33,33	1.18	3 (9%)
3	PLP	A	999	1	14,15,16	1.64	3 (21%)	20,22,23	1.11	2 (10%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the chemical component dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	BZD	A	920	-	-	0/14/34/34	0/2/2/2
2	BZD	A	998	-	-	0/14/34/34	0/2/2/2
3	PLP	A	999	1	-	0/6/6/8	0/1/1/1

All (14) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	998	BZD	C2-C1	4.96	1.57	1.52
3	A	999	PLP	C3-C2	-4.46	1.37	1.40
2	A	920	BZD	C10-C9	4.02	1.46	1.39
2	A	920	BZD	C14-C9	3.55	1.45	1.39
2	A	920	BZD	C4-C5	3.26	1.60	1.53
3	A	999	PLP	C5A-C5	3.10	1.59	1.51
2	A	998	BZD	C14-C9	2.78	1.44	1.39
2	A	920	BZD	C13-C12	2.53	1.45	1.37
2	A	998	BZD	C10-C9	2.37	1.43	1.39
2	A	920	BZD	C13-C14	2.35	1.44	1.39
2	A	920	BZD	C12-C11	2.30	1.44	1.37
2	A	998	BZD	C1-N1	2.29	1.45	1.43
3	A	999	PLP	P-O3P	-2.08	1.47	1.54
2	A	998	BZD	C12-C11	2.08	1.43	1.37

All (11) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	920	BZD	N2-C7-N1	4.82	121.56	113.92
2	A	998	BZD	N2-C7-N1	4.51	121.07	113.92
2	A	920	BZD	O5-C1-C2	4.05	113.34	109.70
2	A	920	BZD	C9-C8-N2	4.05	122.11	116.19
2	A	920	BZD	O8-C8-C9	-3.20	115.40	121.01
2	A	920	BZD	C2-C1-N1	-2.57	107.97	111.44
3	A	999	PLP	O3P-P-O1P	2.46	118.48	110.44
2	A	920	BZD	O7-C7-N1	-2.21	117.66	122.82
2	A	998	BZD	O8-C8-C9	-2.18	117.18	121.01
2	A	998	BZD	C9-C8-N2	2.07	119.22	116.19
3	A	999	PLP	C5-C6-N1	-2.02	120.22	123.86

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

EDS was not executed - this section will therefore be empty.

6.2 Non-standard residues in protein, DNA, RNA chains ⓘ

EDS was not executed - this section will therefore be empty.

6.3 Carbohydrates ⓘ

EDS was not executed - this section will therefore be empty.

6.4 Ligands ⓘ

EDS was not executed - this section will therefore be empty.

6.5 Other polymers ⓘ

EDS was not executed - this section will therefore be empty.