



Full wwPDB X-ray Structure Validation Report ⓘ

Aug 20, 2023 – 02:46 AM EDT

PDB ID : 2FN6
Title : Helicobacter pylori PseC, aminotransferase involved in the biosynthesis of pseudoamino acid
Authors : Cygler, M.; Lunin, V.V.; Matte, A.; Montreal-Kingston Bacterial Structural Genomics Initiative (BSGI)
Deposited on : 2006-01-10
Resolution : 2.48 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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

MolProbity : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.35
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.35

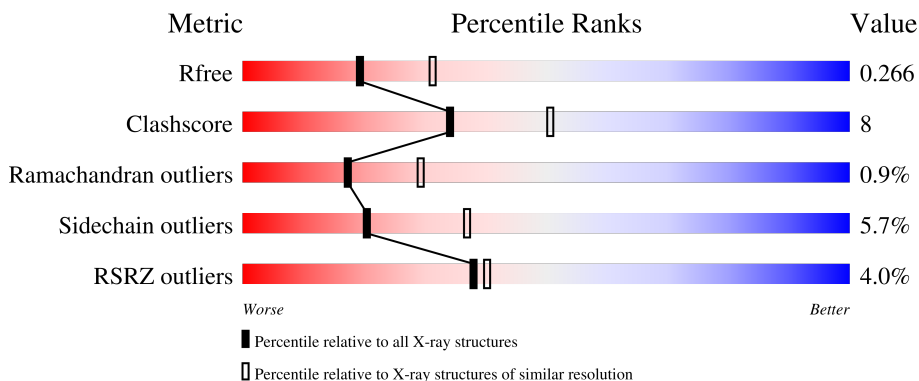
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION


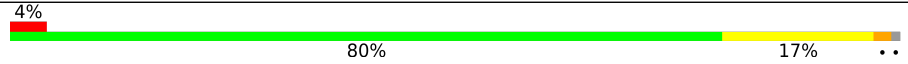
The reported resolution of this entry is 2.48 Å.

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))
R_{free}	130704	5857 (2.50-2.46)
Clashscore	141614	6594 (2.50-2.46)
Ramachandran outliers	138981	6469 (2.50-2.46)
Sidechain outliers	138945	6471 (2.50-2.46)
RSRZ outliers	127900	5738 (2.50-2.46)

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 of the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	375	 4% 78% 18% ..
1	B	375	 4% 80% 17% ..

2 Entry composition [i](#)

There are 3 unique types of molecules in this entry. The entry contains 6053 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 AMINOTRANSFERASE.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	372	Total 2966	C 1910	N 499	O 547	S 10	0	3	0
1	B	371	Total 2958	C 1904	N 497	O 547	S 10	0	1	0

- Molecule 2 is PHOSPHATE ION (three-letter code: PO4) (formula: O₄P).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	O	P		
2	A	1	Total 5	O 4	P 1	0	0
2	B	1	Total 5	O 4	P 1	0	0

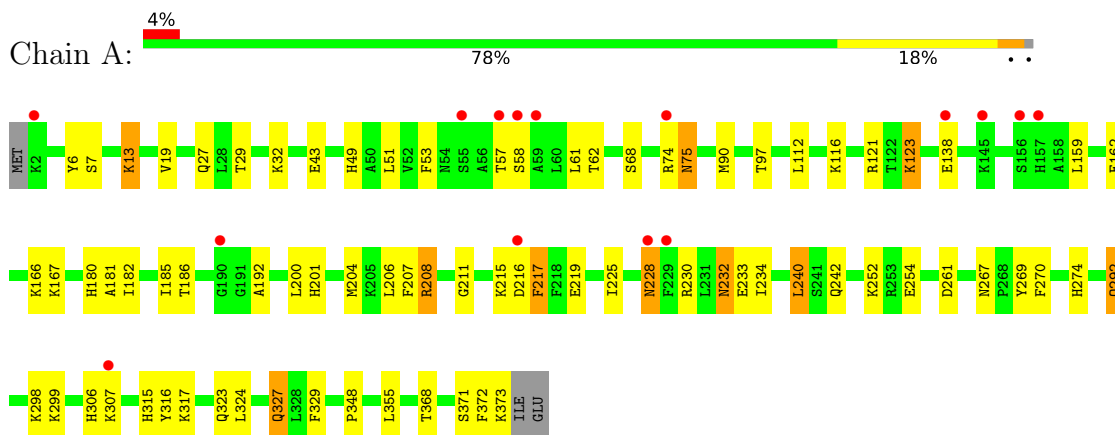
- Molecule 3 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	59	Total O 59 59	0	0
3	B	60	Total O 60 60	0	0

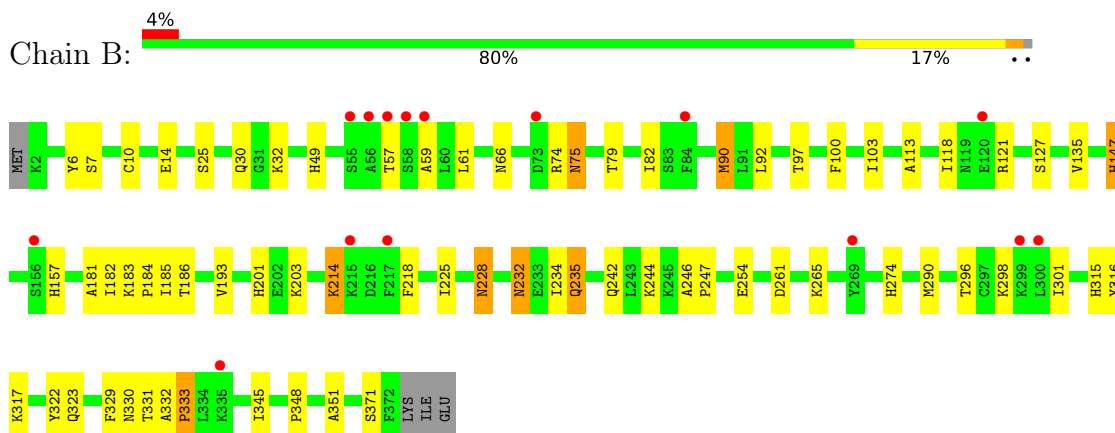
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes 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.

• Molecule 1: AMINOTRANSFERASE



• Molecule 1: AMINOTRANSFERASE



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants a, b, c, α , β , γ	87.69Å 155.42Å 71.48Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	77.62 – 2.48 41.95 – 2.48	Depositor EDS
% Data completeness (in resolution range)	99.2 (77.62-2.48) 99.1 (41.95-2.48)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	4.51 (at 2.48Å)	Xtrriage
Refinement program	REFMAC 5.2.0005	Depositor
R, R_{free}	0.207 , 0.269 0.206 , 0.266	Depositor DCC
R_{free} test set	1754 reflections (5.01%)	wwPDB-VP
Wilson B-factor (Å ²)	50.6	Xtrriage
Anisotropy	0.168	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 39.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	6053	wwPDB-VP
Average B, all atoms (Å ²)	52.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.75% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: PO4

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	0.52	0/3035	0.63	1/4094 (0.0%)
1	B	0.49	0/3027	0.60	0/4080
All	All	0.50	0/6062	0.61	1/8174 (0.0%)

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	240	LEU	CA-CB-CG	5.76	128.55	115.30

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

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 hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	2966	0	2966	59	0
1	B	2958	0	2973	46	0
2	A	5	0	0	0	0
2	B	5	0	0	0	0
3	A	59	0	0	2	0
3	B	60	0	0	3	0
All	All	6053	0	5939	100	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 8.

All (100) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:208:ARG:HH11	1:A:208:ARG:HG2	1.12	1.12
1:B:157:HIS:HD2	1:B:183:LYS:HE3	1.37	0.86
1:A:208:ARG:HG2	1:A:208:ARG:NH1	1.90	0.79
1:A:90:MET:CE	3:B:421:HOH:O	2.30	0.78
1:B:157:HIS:CD2	1:B:183:LYS:HE3	2.25	0.68
1:B:82:ILE:HG13	1:B:103:ILE:HD13	1.79	0.64
1:A:261:ASP:OD2	1:A:274:HIS:HD2	1.81	0.64
1:A:267:ASN:HD22	1:A:269:TYR:H	1.45	0.64
1:B:228:ASN:C	1:B:228:ASN:HD22	2.02	0.62
1:A:267:ASN:HD21	1:A:270:PHE:H	1.48	0.62
1:A:323:GLN:O	1:A:327:GLN:HG2	2.02	0.59
1:A:58:SER:O	1:A:62:THR:HG23	2.03	0.59
1:A:61:LEU:HB2	1:A:90:MET:CE	2.34	0.58
1:A:228:ASN:C	1:A:228:ASN:HD22	2.05	0.57
1:B:290:MET:HE2	1:B:301:ILE:HD12	1.85	0.57
1:B:57:THR:HG22	1:B:90:MET:HE1	1.85	0.57
1:B:232:ASN:HD22	1:B:234:ILE:H	1.53	0.57
1:A:90:MET:HE1	3:B:421:HOH:O	1.99	0.56
1:A:216:ASP:O	1:A:217:PHE:CB	2.53	0.56
1:A:368:THR:O	1:A:371:SER:HB2	2.04	0.56
1:A:75:ASN:H	1:A:75:ASN:HD22	1.54	0.55
1:B:232:ASN:ND2	1:B:235:GLN:H	2.06	0.53
1:B:232:ASN:HD22	1:B:234:ILE:N	2.06	0.53
1:A:306[B]:HIS:CE1	1:B:218:PHE:HE2	2.27	0.53
1:B:186:THR:H	1:B:242:GLN:HE21	1.56	0.53
1:B:57:THR:HG22	1:B:90:MET:CE	2.38	0.53
1:B:261:ASP:OD2	1:B:274:HIS:HD2	1.92	0.52
3:A:382:HOH:O	1:B:90:MET:CE	2.58	0.52
1:A:19:VAL:HG13	1:A:234:ILE:HG23	1.90	0.52
1:A:208:ARG:O	1:A:208:ARG:HG3	2.10	0.52
1:A:215:LYS:HA	3:A:406:HOH:O	2.08	0.51
1:A:372:PHE:O	1:A:373:LYS:CB	2.59	0.51
1:A:49:HIS:HB3	1:A:201:HIS:ND1	2.26	0.51
1:A:186:THR:H	1:A:242:GLN:HE21	1.59	0.51
1:A:6:TYR:HA	1:A:348:PRO:HA	1.94	0.50
1:B:6:TYR:HA	1:B:348:PRO:HA	1.94	0.50
1:B:214:LYS:HE3	1:B:214:LYS:HA	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:228:ASN:C	1:B:228:ASN:ND2	2.65	0.50
1:A:216:ASP:O	1:A:217:PHE:HB2	2.12	0.50
1:A:90:MET:HE3	3:B:421:HOH:O	2.04	0.50
1:B:75:ASN:H	1:B:75:ASN:HD22	1.60	0.49
1:B:254:GLU:OE1	1:B:274:HIS:HE1	1.95	0.49
1:B:118:ILE:HG21	1:B:147:HIS:HD2	1.77	0.49
1:B:7:SER:HB3	1:B:182:ILE:HB	1.95	0.49
1:B:66:ASN:HD22	1:B:203:LYS:HE2	1.80	0.47
1:A:267:ASN:ND2	1:A:269:TYR:H	2.12	0.47
1:A:62:THR:HG22	1:A:207:PHE:HD1	1.79	0.47
1:A:252:LYS:HA	1:A:252:LYS:HD2	1.73	0.46
1:A:13:LYS:H	1:A:13:LYS:HD2	1.79	0.46
1:A:32:LYS:H	1:A:32:LYS:HD2	1.80	0.46
1:B:118:ILE:HG21	1:B:147:HIS:CD2	2.51	0.46
1:B:61:LEU:HB2	1:B:90:MET:CE	2.45	0.46
1:A:162:GLU:HG2	1:A:167:LYS:HG2	1.97	0.46
1:A:228:ASN:HD22	1:A:230:ARG:H	1.64	0.46
1:A:267:ASN:ND2	1:A:270:PHE:H	2.12	0.46
1:A:180:HIS:HE1	1:B:30:GLN:NE2	2.14	0.46
1:A:57:THR:O	1:A:90:MET:HE2	2.15	0.45
1:B:185:ILE:HB	1:B:242:GLN:HB3	1.99	0.45
1:A:219:GLU:HG3	1:B:317:LYS:HD2	1.98	0.45
1:B:322:TYR:O	1:B:323:GLN:C	2.55	0.45
1:A:27[A]:GLN:NE2	1:A:29:THR:O	2.50	0.45
1:A:228:ASN:C	1:A:228:ASN:ND2	2.70	0.45
1:B:59:ALA:HB1	1:B:193:VAL:HG23	1.98	0.45
1:A:159:LEU:CD2	1:A:185:ILE:HG12	2.47	0.44
1:A:292:GLN:HE21	1:A:292:GLN:HB3	1.58	0.44
1:A:7:SER:HB3	1:A:182:ILE:HB	2.00	0.44
1:A:74:ARG:HB3	1:A:123:LYS:HG2	2.00	0.44
1:A:61:LEU:HB2	1:A:90:MET:HE3	2.00	0.43
1:A:97:THR:HG23	1:A:329:PHE:CE2	2.53	0.43
1:A:75:ASN:ND2	1:A:121:ARG:HB3	2.32	0.43
1:A:225:ILE:CD1	1:B:92:LEU:HD12	2.49	0.43
1:A:232:ASN:C	1:A:232:ASN:HD22	2.22	0.43
1:B:232:ASN:ND2	1:B:235:GLN:HG2	2.34	0.43
1:B:97:THR:HG23	1:B:329:PHE:CE2	2.53	0.43
1:B:49:HIS:HB3	1:B:201:HIS:ND1	2.34	0.43
1:B:232:ASN:HD21	1:B:235:GLN:HG2	1.83	0.43
1:B:290:MET:HE3	1:B:345:ILE:HD11	2.01	0.43
1:A:51:LEU:O	1:A:192:ALA:HA	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:214:LYS:HA	1:B:214:LYS:CE	2.49	0.42
1:A:306[B]:HIS:CE1	1:B:218:PHE:CE2	3.07	0.42
1:A:315:HIS:HA	1:A:316:TYR:HA	1.84	0.42
1:A:181:ALA:HA	1:A:186:THR:OG1	2.19	0.42
1:B:10:CYS:SG	1:B:351:ALA:HB3	2.60	0.42
1:B:246:ALA:HB3	1:B:247:PRO:HD3	2.01	0.42
1:B:315:HIS:HA	1:B:316:TYR:HA	1.81	0.41
1:B:79:THR:O	1:B:100:PHE:HA	2.20	0.41
1:A:53:PHE:CE1	1:A:208:ARG:HD3	2.54	0.41
1:B:127:SER:HB2	1:B:135:VAL:HG11	2.02	0.41
1:A:200:LEU:O	1:A:204:MET:HG2	2.21	0.41
1:B:183:LYS:HB3	1:B:184:PRO:HD2	2.03	0.41
1:A:29:THR:HA	1:A:233:GLU:HG2	2.02	0.41
1:A:61:LEU:HB2	1:A:90:MET:HE2	2.01	0.41
1:B:332:ALA:HA	1:B:333:PRO:HD2	1.86	0.41
1:A:62:THR:HG22	1:A:207:PHE:CD1	2.55	0.41
1:A:182:ILE:H	1:A:182:ILE:HG13	1.80	0.41
1:B:225:ILE:HD12	1:B:225:ILE:C	2.42	0.41
1:B:61:LEU:HB2	1:B:90:MET:HE3	2.03	0.40
1:A:180:HIS:HD2	1:A:182:ILE:HG13	1.86	0.40
1:A:206:LEU:HB3	1:A:211:GLY:HA2	2.03	0.40
1:A:254:GLU:OE1	1:A:274:HIS:HE1	2.04	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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	373/375 (100%)	353 (95%)	19 (5%)	1 (0%)	41	59
1	B	370/375 (99%)	342 (92%)	22 (6%)	6 (2%)	9	15
All	All	743/750 (99%)	695 (94%)	41 (6%)	7 (1%)	17	29

All (7) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	217	PHE
1	B	113	ALA
1	B	331	THR
1	B	181	ALA
1	B	371	SER
1	B	330	ASN
1	B	333	PRO

5.3.2 Protein sidechains [i](#)

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	324/330 (98%)	303 (94%)	21 (6%)	17	31
1	B	326/330 (99%)	310 (95%)	16 (5%)	25	44
All	All	650/660 (98%)	613 (94%)	37 (6%)	20	37

All (37) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	13	LYS
1	A	43	GLU
1	A	68	SER
1	A	75	ASN
1	A	112	LEU
1	A	116	LYS
1	A	123	LYS
1	A	138	GLU
1	A	166	LYS
1	A	208	ARG
1	A	228	ASN
1	A	232	ASN
1	A	240	LEU
1	A	292	GLN
1	A	298	LYS
1	A	299	LYS

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Mol	Chain	Res	Type
1	A	307	LYS
1	A	317	LYS
1	A	324	LEU
1	A	327	GLN
1	A	355	LEU
1	B	14	GLU
1	B	25	SER
1	B	32	LYS
1	B	74	ARG
1	B	75	ASN
1	B	90	MET
1	B	121	ARG
1	B	147	HIS
1	B	214	LYS
1	B	228	ASN
1	B	232	ASN
1	B	235	GLN
1	B	244	LYS
1	B	265	LYS
1	B	296	THR
1	B	298	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (26) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	30	GLN
1	A	66	ASN
1	A	75	ASN
1	A	180	HIS
1	A	228	ASN
1	A	232	ASN
1	A	235	GLN
1	A	242	GLN
1	A	267	ASN
1	A	274	HIS
1	A	283	ASN
1	A	292	GLN
1	A	327	GLN
1	B	30	GLN
1	B	54	ASN
1	B	66	ASN
1	B	75	ASN

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Mol	Chain	Res	Type
1	B	147	HIS
1	B	157	HIS
1	B	228	ASN
1	B	232	ASN
1	B	235	GLN
1	B	242	GLN
1	B	274	HIS
1	B	283	ASN
1	B	284	HIS

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

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

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

2 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	PO4	A	376	-	4,4,4	0.87	0	6,6,6	0.71	0
2	PO4	B	376	-	4,4,4	0.81	0	6,6,6	0.75	0

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

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

In the following table, the column labelled ‘#RSRZ > 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q < 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	372/375 (99%)	0.17	15 (4%) 38 40	30, 49, 72, 99	0
1	B	371/375 (98%)	0.15	15 (4%) 38 40	27, 51, 76, 88	0
All	All	743/750 (99%)	0.16	30 (4%) 38 40	27, 50, 73, 99	0

All (30) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	217	PHE	3.7
1	B	300	LEU	3.3
1	B	58	SER	2.8
1	A	58	SER	2.7
1	B	335	LYS	2.6
1	B	57	THR	2.5
1	A	190	GLY	2.5
1	B	269	TYR	2.4
1	A	74	ARG	2.4
1	B	73	ASP	2.4
1	B	156	SER	2.4
1	B	84	PHE	2.3
1	A	307	LYS	2.3
1	A	55	SER	2.3
1	B	55	SER	2.3
1	A	59	ALA	2.3
1	B	299	LYS	2.3
1	A	156	SER	2.3
1	B	215	LYS	2.2
1	A	229	PHE	2.2
1	A	2	LYS	2.2
1	A	228	ASN	2.2
1	A	157	HIS	2.1
1	B	59	ALA	2.1

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Mol	Chain	Res	Type	RSRZ
1	A	57	THR	2.1
1	A	138	GLU	2.1
1	A	216	ASP	2.1
1	B	56	ALA	2.1
1	A	145	LYS	2.1
1	B	120	GLU	2.0

6.2 Non-standard residues in protein, DNA, RNA chains [i](#)

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

6.3 Carbohydrates [i](#)

There are no monosaccharides in this entry.

6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
2	PO4	B	376	5/5	0.85	0.44	85,86,88,90	0
2	PO4	A	376	5/5	0.90	0.44	67,73,77,79	0

6.5 Other polymers [i](#)

There are no such residues in this entry.