



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 9, 2026 – 02:33 PM UTC

PDB ID : 3WK7 / pdb_00003wk7
Title : Crystal structure of soluble epoxide hydrolase in complex with fragment inhibitor
Authors : Amano, Y.; Yamaguchi, T.; Tanabe, E.
Deposited on : 2013-10-17
Resolution : 2.20 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	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

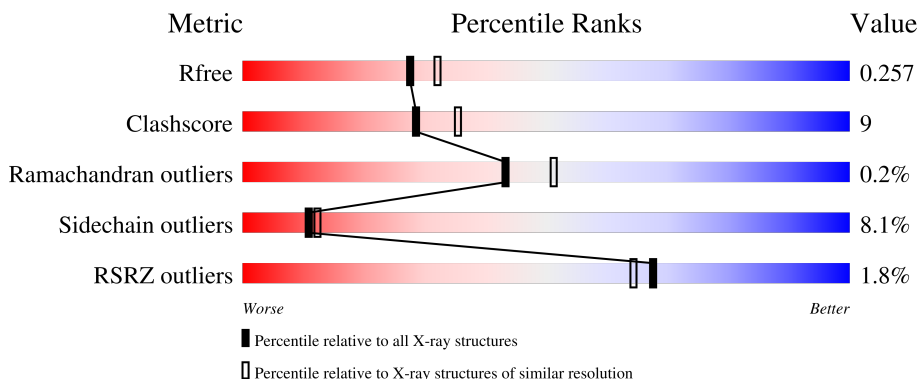
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

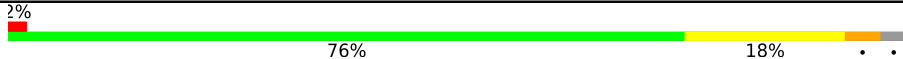
The reported resolution of this entry is 2.20 Å.

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}	180053	6164 (2.20-2.20)
Clashscore	190562	6851 (2.20-2.20)
Ramachandran outliers	187476	6768 (2.20-2.20)
Sidechain outliers	187428	6769 (2.20-2.20)
RSRZ outliers	180081	6166 (2.20-2.20)

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	561	

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 4414 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 Bifunctional epoxide hydrolase 2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	546	Total	C	N	O	S	0	0	0
			4323	2771	728	788	36			

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	556	HIS	-	expression tag	UNP P34913
A	557	HIS	-	expression tag	UNP P34913
A	558	HIS	-	expression tag	UNP P34913
A	559	HIS	-	expression tag	UNP P34913
A	560	HIS	-	expression tag	UNP P34913
A	561	HIS	-	expression tag	UNP P34913

- Molecule 2 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

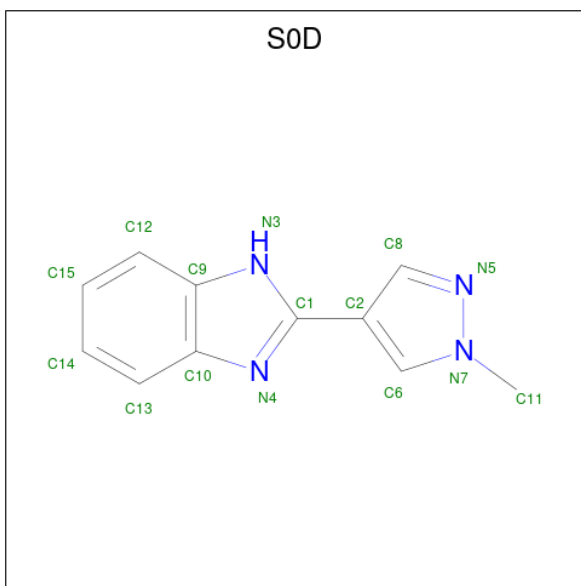
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	1	Total	Mg	0	0
			1	1		

- Molecule 3 is PHOSPHATE ION (CCD ID: PO4) (formula: O₄P).



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

- Molecule 4 is 2-(1-methyl-1H-pyrazol-4-yl)-1H-benzimidazole (CCD ID: S0D) (formula: $C_{11}H_{10}N_4$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	A	1	Total	C	N	0	0
			15	11	4		

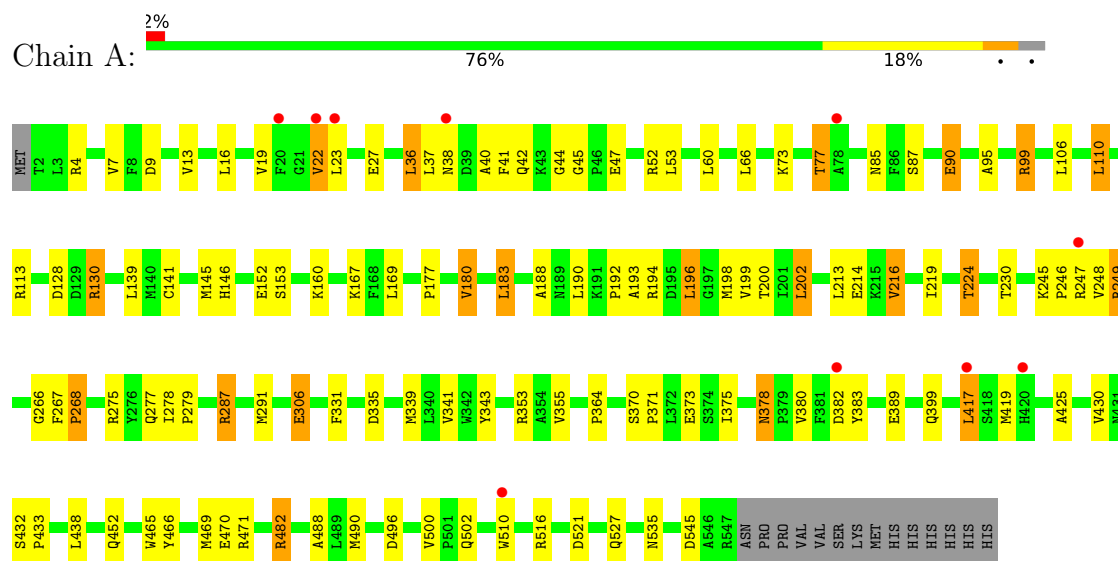
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	70	Total	O	0	0
			70	70		

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: Bifunctional epoxide hydrolase 2



4 Data and refinement statistics

Property	Value	Source
Space group	P 65 2 2	Depositor
Cell constants a, b, c, α , β , γ	92.70Å 92.70Å 244.46Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	30.11 – 2.20 30.11 – 2.20	Depositor EDS
% Data completeness (in resolution range)	97.6 (30.11-2.20) 97.6 (30.11-2.20)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	8.93 (at 2.20Å)	Xtriage
Refinement program	REFMAC 5.7.0029	Depositor
R, R_{free}	0.204 , 0.259 0.202 , 0.257	Depositor DCC
R_{free} test set	1613 reflections (4.97%)	wwPDB-VP
Wilson B-factor (Å ²)	34.6	Xtriage
Anisotropy	0.018	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.37 , 32.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	4414	wwPDB-VP
Average B, all atoms (Å ²)	36.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.06% 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

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: S0D, MG, 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	1.13	2/4428 (0.0%)	1.22	20/6000 (0.3%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	465	TRP	N-CA	5.15	1.52	1.46
1	A	141	CYS	C-O	-5.08	1.18	1.24

All (20) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	287	ARG	NE-CZ-NH2	11.03	129.13	119.20
1	A	246	PRO	CA-C-N	-8.82	107.40	122.56
1	A	246	PRO	C-N-CA	-8.82	107.40	122.56
1	A	287	ARG	NE-CZ-NH1	-7.92	113.58	121.50
1	A	389	GLU	CA-C-N	-7.71	111.50	119.83
1	A	389	GLU	C-N-CA	-7.71	111.50	119.83
1	A	224	THR	CA-C-N	-6.92	112.52	119.92
1	A	224	THR	C-N-CA	-6.92	112.52	119.92
1	A	482	ARG	NE-CZ-NH2	6.47	125.02	119.20
1	A	482	ARG	NE-CZ-NH1	-6.45	115.05	121.50
1	A	160	LYS	N-CA-C	-6.29	101.84	109.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	130	ARG	NE-CZ-NH2	6.13	124.72	119.20
1	A	193	ALA	N-CA-C	-5.89	104.94	111.36
1	A	287	ARG	CB-CG-CD	5.84	124.72	111.30
1	A	180	VAL	N-CA-C	5.72	116.12	108.11
1	A	471	ARG	NE-CZ-NH2	5.62	124.26	119.20
1	A	287	ARG	CD-NE-CZ	5.46	132.05	124.40
1	A	471	ARG	NE-CZ-NH1	-5.21	116.29	121.50
1	A	275	ARG	N-CA-C	5.14	118.34	111.75
1	A	167	LYS	N-CA-C	-5.06	105.85	111.36

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	291	MET	Peptide

5.2 Too-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 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	4323	0	4329	76	0
2	A	1	0	0	0	0
3	A	5	0	0	0	0
4	A	15	0	10	1	0
5	A	70	0	0	5	0
All	All	4414	0	4339	76	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 9.

All (76) 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:339:MET:HE2	1:A:343:TYR:HE1	1.04	1.11
1:A:339:MET:HE2	1:A:343:TYR:CE1	1.95	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:190:LEU:HD22	1:A:200:THR:HB	1.51	0.93
1:A:378:ASN:C	1:A:378:ASN:HD22	1.80	0.88
1:A:73:LYS:O	1:A:77:THR:HG22	1.76	0.85
1:A:339:MET:CE	1:A:343:TYR:HE1	1.90	0.84
1:A:99:ARG:HD3	5:A:763:HOH:O	1.77	0.83
1:A:364:PRO:HG3	1:A:510:TRP:CE2	2.15	0.82
1:A:22:VAL:HG11	1:A:95:ALA:HB2	1.64	0.79
1:A:339:MET:HE1	5:A:770:HOH:O	1.88	0.74
1:A:510:TRP:CE2	5:A:704:HOH:O	2.40	0.73
1:A:378:ASN:HD21	1:A:380:VAL:HG12	1.54	0.72
1:A:99:ARG:CD	5:A:763:HOH:O	2.33	0.71
1:A:180:VAL:HG11	1:A:198:MET:CE	2.27	0.65
1:A:378:ASN:ND2	1:A:380:VAL:HG12	2.12	0.64
1:A:425:ALA:HB1	1:A:430:VAL:HG21	1.80	0.64
1:A:180:VAL:HG11	1:A:198:MET:HE3	1.80	0.63
1:A:266:GLY:HA3	1:A:335:ASP:HB3	1.80	0.63
1:A:60:LEU:HD23	1:A:130:ARG:CD	2.30	0.62
1:A:378:ASN:ND2	1:A:380:VAL:H	1.97	0.61
1:A:7:VAL:HG21	1:A:169:LEU:HD21	1.85	0.58
1:A:417:LEU:N	1:A:417:LEU:HD12	2.20	0.57
1:A:278:ILE:HB	1:A:279:PRO:HD3	1.86	0.57
1:A:378:ASN:HD22	1:A:380:VAL:H	1.50	0.57
1:A:60:LEU:CD2	1:A:130:ARG:HD2	2.36	0.56
1:A:417:LEU:HD12	1:A:417:LEU:H	1.71	0.56
1:A:60:LEU:HD23	1:A:130:ARG:HD3	1.89	0.55
1:A:87:SER:CB	1:A:90:GLU:HB2	2.38	0.53
1:A:87:SER:HB3	1:A:90:GLU:HB2	1.91	0.53
1:A:87:SER:OG	1:A:90:GLU:HB2	2.09	0.53
1:A:199:VAL:HG11	1:A:216:VAL:HG21	1.92	0.52
1:A:277:GLN:HE22	1:A:527:GLN:HB3	1.73	0.52
1:A:378:ASN:C	1:A:378:ASN:ND2	2.53	0.51
1:A:370:SER:O	1:A:373:GLU:HB2	2.10	0.51
1:A:128:ASP:OD1	1:A:130:ARG:HD3	2.11	0.51
1:A:432:SER:HB2	1:A:433:PRO:HD2	1.93	0.51
1:A:23:LEU:HD12	1:A:38:ASN:ND2	2.26	0.50
1:A:277:GLN:NE2	1:A:527:GLN:HB3	2.26	0.50
1:A:60:LEU:HD23	1:A:130:ARG:HD2	1.94	0.50
1:A:110:LEU:HD11	1:A:146:HIS:HB3	1.93	0.50
1:A:245:LYS:HE2	1:A:248:VAL:HG21	1.93	0.50
1:A:249:ARG:O	1:A:249:ARG:HG2	2.01	0.49
1:A:371:PRO:HD2	1:A:470:GLU:OE2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:169:LEU:HD23	1:A:198:MET:HE1	1.95	0.48
1:A:417:LEU:HD22	1:A:419:MET:HE1	1.96	0.48
1:A:145:MET:HE2	1:A:230:THR:HG21	1.95	0.47
1:A:425:ALA:O	1:A:430:VAL:HG11	2.15	0.47
1:A:16:LEU:O	1:A:99:ARG:HA	2.15	0.46
1:A:27:GLU:HG3	1:A:37:LEU:HG	1.97	0.46
1:A:510:TRP:CZ2	5:A:704:HOH:O	2.67	0.45
1:A:183:LEU:HD11	1:A:213:LEU:HD22	1.97	0.45
1:A:190:LEU:HD11	1:A:202:LEU:HA	1.99	0.45
1:A:306:GLU:H	1:A:306:GLU:CD	2.24	0.45
1:A:177:PRO:HB2	1:A:196:LEU:O	2.17	0.44
1:A:44:GLY:O	1:A:45:GLY:C	2.61	0.44
1:A:9:ASP:HB3	1:A:13:VAL:HG21	1.98	0.44
1:A:383:TYR:OH	4:A:603:S0D:H5	2.18	0.44
1:A:490:MET:O	1:A:516:ARG:HA	2.17	0.44
1:A:496:ASP:O	1:A:500:VAL:HG12	2.17	0.43
1:A:466:TYR:O	1:A:469:MET:HE2	2.18	0.43
1:A:180:VAL:CG1	1:A:198:MET:CE	2.95	0.43
1:A:152:GLU:O	1:A:153:SER:C	2.61	0.43
1:A:36:LEU:C	1:A:36:LEU:HD13	2.44	0.43
1:A:277:GLN:HG3	1:A:535:ASN:ND2	2.33	0.42
1:A:36:LEU:C	1:A:36:LEU:CD1	2.92	0.42
1:A:214:GLU:HG3	1:A:219:ILE:O	2.19	0.42
1:A:52:ARG:HH21	1:A:52:ARG:HD2	1.74	0.42
1:A:110:LEU:CD1	1:A:146:HIS:HB3	2.48	0.42
1:A:180:VAL:CG1	1:A:198:MET:HE2	2.50	0.41
1:A:40:ALA:O	1:A:41:PHE:C	2.62	0.41
1:A:27:GLU:OE2	1:A:37:LEU:N	2.52	0.40
1:A:99:ARG:O	1:A:99:ARG:HG2	2.20	0.40
1:A:188:ALA:O	1:A:192:PRO:HD3	2.22	0.40
1:A:331:PHE:HB3	1:A:341:VAL:CG1	2.51	0.40
1:A:267:PHE:HA	1:A:268:PRO:HA	1.93	0.40
1:A:355:VAL:O	1:A:488:ALA:HA	2.22	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	544/561 (97%)	521 (96%)	22 (4%)	1 (0%)	43	51

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	268	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	472/487 (97%)	434 (92%)	38 (8%)	11	12

All (38) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	4	ARG
1	A	19	VAL
1	A	22	VAL
1	A	36	LEU
1	A	42	GLN
1	A	47	GLU
1	A	53	LEU
1	A	66	LEU
1	A	77	THR
1	A	85	ASN

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Mol	Chain	Res	Type
1	A	90	GLU
1	A	99	ARG
1	A	106	LEU
1	A	110	LEU
1	A	113	ARG
1	A	139	LEU
1	A	183	LEU
1	A	194	ARG
1	A	196	LEU
1	A	202	LEU
1	A	216	VAL
1	A	224	THR
1	A	247	ARG
1	A	249	ARG
1	A	287	ARG
1	A	306	GLU
1	A	353	ARG
1	A	375	ILE
1	A	378	ASN
1	A	382	ASP
1	A	399	GLN
1	A	417	LEU
1	A	438	LEU
1	A	452	GLN
1	A	482	ARG
1	A	502	GLN
1	A	521	ASP
1	A	545	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (6) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	38	ASN
1	A	277	GLN
1	A	378	ASN
1	A	384	GLN
1	A	453	GLN
1	A	535	ASN

5.3.3 RNA ⓘ

There are no RNA molecules 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 oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

Of 3 ligands modelled in this entry, 1 is monoatomic - leaving 2 for Mogul analysis.

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	$\# Z > 2$
4	S0D	A	603	-	17,17,17	1.44	3 (17%)	22,24,24	1.54	4 (18%)
3	PO4	A	602	2	4,4,4	1.10	0	6,6,6	0.97	0

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
4	S0D	A	603	-	-	0/4/4/4	0/3/3/3

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	603	S0D	C1-N4	3.69	1.38	1.32
4	A	603	S0D	C6-N7	3.40	1.38	1.34
4	A	603	S0D	C1-N3	-2.19	1.33	1.36

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	A	603	SOD	C10-C9-N3	3.03	109.35	105.71
4	A	603	SOD	C10-N4-C1	2.68	107.40	104.68
4	A	603	SOD	C9-C10-N4	-2.66	105.77	109.42
4	A	603	SOD	N3-C1-N4	-2.10	110.98	113.22

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	A	603	SOD	1	0

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data [i](#)

6.1 Protein, DNA and RNA chains [i](#)

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	546/561 (97%)	-0.20	10 (1%) 67 64	18, 33, 64, 85	0

All (10) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	78	ALA	3.3
1	A	510	TRP	3.3
1	A	20	PHE	3.0
1	A	247	ARG	2.9
1	A	417	LEU	2.5
1	A	420	HIS	2.5
1	A	22	VAL	2.4
1	A	23	LEU	2.2
1	A	38	ASN	2.2
1	A	382	ASP	2.1

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 oligosaccharides 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($\text{\AA}^2$)	Q<0.9
2	MG	A	601	1/1	0.86	0.09	35,35,35,35	0
4	SOD	A	603	15/15	0.92	0.08	28,33,36,37	0
3	PO4	A	602	5/5	0.97	0.08	34,36,40,41	0

6.5 Other polymers [i](#)

There are no such residues in this entry.