



Full wwPDB X-ray Structure Validation Report ⓘ

Jun 22, 2024 – 10:39 AM EDT

PDB ID : 6RP4
Title : CDT of SidD, deAMPylase from Legionella pneumophila
Authors : Tascon, I.; Lucas, M.; Rojas, A.L.; Hierro, A.
Deposited on : 2019-05-13
Resolution : 2.50 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 : 2022.3.0, CSD as543be (2022)
Xtrriage (Phenix) : 1.20.1
EDS : 2.37.1
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) : 2.37.1

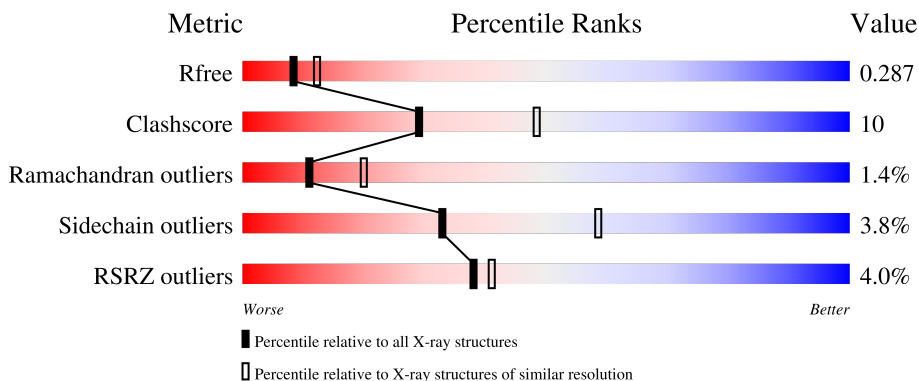
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.50 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	4661 (2.50-2.50)
Clashscore	141614	5346 (2.50-2.50)
Ramachandran outliers	138981	5231 (2.50-2.50)
Sidechain outliers	138945	5233 (2.50-2.50)
RSRZ outliers	127900	4559 (2.50-2.50)

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	158	 3% 65% 11% 21%
1	B	158	 5% 57% 23% 20%
1	C	158	 3% 68% 10% 22%
1	D	158	 % 59% 19% 19%

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 4103 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 Adenosine monophosphate-protein hydrolase SidD.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	125	1000	648	163	187	2	0	1	0
1	B	127	1009	656	163	188	2	0	0	0
1	C	124	984	639	159	184	2	0	0	0
1	D	128	1017	660	164	191	2	0	0	0

- Molecule 2 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	1	Total	Zn	0	0
			1	1		
2	B	1	Total	Zn	0	0
			1	1		
2	C	1	Total	Zn	0	0
			1	1		
2	D	1	Total	Zn	0	0
			1	1		

- Molecule 3 is GLYCEROL (three-letter code: GOL) (formula: C₃H₈O₃).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total C O 6 3 3	0	0
3	B	1	Total C O 6 3 3	0	0
3	B	1	Total C O 6 3 3	0	0
3	D	1	Total C O 6 3 3	0	0

- Molecule 4 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	1	Total Mg 1 1	0	0
4	B	1	Total Mg 1 1	0	0
4	C	1	Total Mg 1 1	0	0
4	D	1	Total Mg 1 1	0	0

- Molecule 5 is SODIUM ION (three-letter code: NA) (formula: Na).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	3	Total Na 3 3	0	0

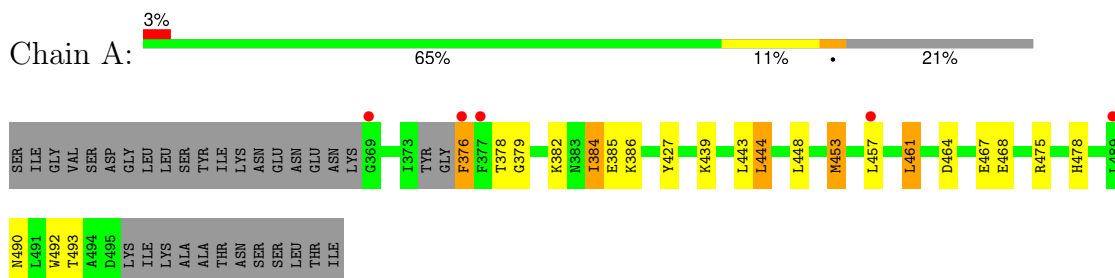
- Molecule 6 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	A	18	Total O 18 18	0	0
6	B	16	Total O 16 16	0	0
6	C	5	Total O 5 5	0	0
6	D	19	Total O 19 19	0	0

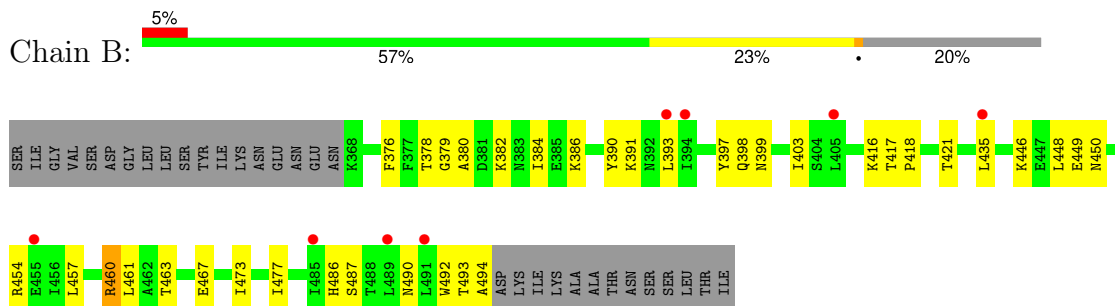
3 Residue-property plots [i](#)

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.

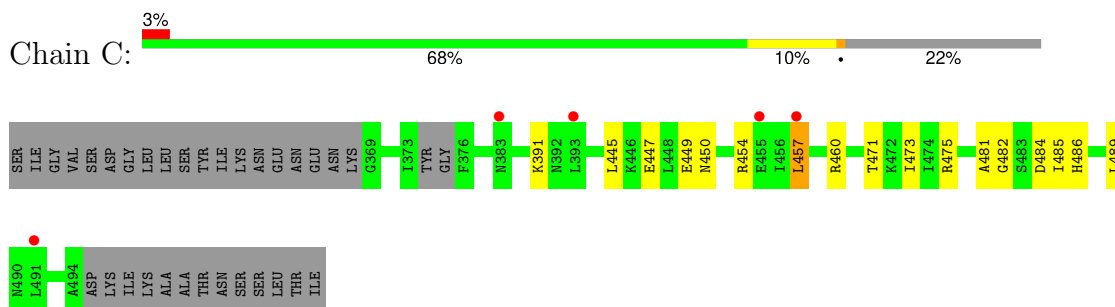
- Molecule 1: Adenosine monophosphate-protein hydrolase SidD



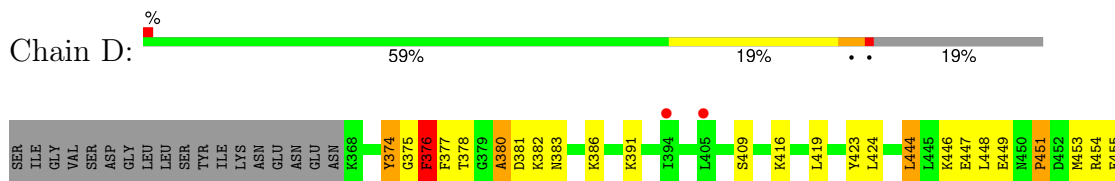
- Molecule 1: Adenosine monophosphate-protein hydrolase SidD



- Molecule 1: Adenosine monophosphate-protein hydrolase SidD



- Molecule 1: Adenosine monophosphate-protein hydrolase SidD



I466	S459	R460	L461	E470	T471	K472	R475	H478	T488	L489	N490	D495	LYS	LYS	ALA	ALA	THR	ASN	SER	SER	LEU	THR	ILE
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4 Data and refinement statistics i

Property	Value	Source
Space group	P 63	Depositor
Cell constants a, b, c, α , β , γ	165.58Å 165.58Å 68.71Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	47.80 – 2.50 47.80 – 2.50	Depositor EDS
% Data completeness (in resolution range)	99.9 (47.80-2.50) 99.9 (47.80-2.50)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.60 (at 2.51Å)	Xtriage
Refinement program	PHENIX 1.13_2998	Depositor
R, R_{free}	0.263 , 0.296 0.264 , 0.287	Depositor DCC
R_{free} test set	1936 reflections (5.18%)	wwPDB-VP
Wilson B-factor (Å ²)	59.5	Xtriage
Anisotropy	0.248	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 42.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.51$, $\langle L^2 \rangle = 0.35$	Xtriage
Estimated twinning fraction	0.489 for h,-h-k,-l	Xtriage
Reported twinning fraction	0.500 for h,-h-k,-l	Depositor
Outliers	0 of 37398 reflections	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	4103	wwPDB-VP
Average B, all atoms (Å ²)	65.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.98% 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: MG, GOL, NA, ZN

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	0.26	0/1020	0.43	0/1380
1	B	0.24	0/1028	0.39	0/1392
1	C	0.24	0/1001	0.42	0/1355
1	D	0.25	0/1036	0.44	0/1403
All	All	0.25	0/4085	0.42	0/5530

There are no bond length outliers.

There are no bond angle outliers.

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	1000	0	1029	17	0
1	B	1009	0	1039	31	0
1	C	984	0	1013	13	0
1	D	1017	0	1043	23	0
2	A	1	0	0	0	0
2	B	1	0	0	0	0
2	C	1	0	0	0	0
2	D	1	0	0	0	0
3	A	6	0	8	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	B	12	0	16	1	0
3	D	6	0	8	0	0
4	A	1	0	0	0	0
4	B	1	0	0	0	0
4	C	1	0	0	0	0
4	D	1	0	0	0	0
5	A	3	0	0	0	0
6	A	18	0	0	0	0
6	B	16	0	0	1	0
6	C	5	0	0	0	0
6	D	19	0	0	1	0
All	All	4103	0	4156	79	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 10.

All (79) 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:B:380:ALA:H	1:B:382:LYS:NZ	1.39	1.17
1:B:380:ALA:N	1:B:382:LYS:HZ1	1.63	0.96
1:B:380:ALA:H	1:B:382:LYS:HZ1	0.97	0.95
1:B:380:ALA:N	1:B:382:LYS:NZ	2.23	0.76
1:B:380:ALA:H	1:B:382:LYS:HZ2	1.36	0.73
1:B:454:ARG:NH1	1:B:457:LEU:O	2.26	0.69
1:D:383:ASN:HD21	1:D:386:LYS:HD2	1.58	0.69
1:B:379:GLY:HA2	1:B:382:LYS:HZ1	1.58	0.68
1:C:454:ARG:HG3	1:C:457:LEU:HD12	1.76	0.68
1:A:467:GLU:HG3	1:C:482:GLY:HA3	1.81	0.62
1:C:447:GLU:OE1	1:C:450:ASN:ND2	2.35	0.59
1:C:454:ARG:HA	1:C:457:LEU:HG	1.86	0.57
1:D:381:ASP:HB2	1:D:419:LEU:HD23	1.86	0.57
1:D:472:LYS:HD3	1:D:488:THR:HG21	1.87	0.57
1:D:456:ILE:O	1:D:460:ARG:NH2	2.38	0.57
1:B:379:GLY:CA	1:B:382:LYS:HZ1	2.18	0.56
1:D:374:TYR:HB3	1:D:376:PHE:CZ	2.39	0.56
1:C:484:ASP:N	1:C:484:ASP:OD1	2.39	0.56
1:A:453:MET:N	1:A:453:MET:SD	2.80	0.55
1:B:486:HIS:HD2	1:D:475:ARG:HH21	1.54	0.55
1:B:454:ARG:NH1	1:B:454:ARG:O	2.35	0.54
1:A:448:LEU:HB3	1:A:457:LEU:HD11	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:471:THR:O	1:C:475:ARG:HG2	2.08	0.53
1:D:377:PHE:HD1	1:D:391:LYS:HE3	1.72	0.53
1:D:461:LEU:HD23	1:D:461:LEU:H	1.74	0.53
1:D:447:GLU:O	1:D:451:PRO:HD2	2.09	0.53
1:C:473:ILE:HD12	1:C:473:ILE:C	2.30	0.52
1:B:390:TYR:CZ	1:B:477:ILE:HG13	2.45	0.52
1:B:448:LEU:HG	1:B:457:LEU:HD12	1.92	0.52
1:B:435:LEU:HD22	3:B:603:GOL:H12	1.91	0.52
1:A:453:MET:O	1:A:457:LEU:N	2.43	0.52
1:D:383:ASN:ND2	1:D:416:LYS:O	2.42	0.51
1:D:447:GLU:HG3	1:D:453:MET:CE	2.40	0.51
1:A:475[B]:ARG:HH12	1:C:486:HIS:HD2	1.57	0.51
1:B:378:THR:O	1:B:391:LYS:NZ	2.44	0.50
1:D:378:THR:HG21	1:D:423:TYR:CD2	2.47	0.50
1:B:463:THR:O	1:B:467:GLU:HG2	2.13	0.49
1:A:439:LYS:O	1:A:443:LEU:HG	2.13	0.49
1:B:460:ARG:H	1:B:460:ARG:HD3	1.78	0.48
1:D:409:SER:HB3	1:D:470:GLU:OE2	2.14	0.48
1:A:490:ASN:O	1:A:493:THR:OG1	2.28	0.48
1:D:448:LEU:HD12	1:D:453:MET:HB3	1.95	0.48
1:D:455:GLU:H	1:D:455:GLU:CD	2.16	0.48
1:C:485:ILE:O	1:C:489:LEU:HD12	2.14	0.48
1:B:403:ILE:HD11	1:B:492:TRP:HB2	1.96	0.47
1:B:461:LEU:HG	1:B:463:THR:H	1.79	0.47
1:B:487:SER:OG	6:B:701:HOH:O	2.20	0.47
1:A:475[B]:ARG:HH12	1:C:486:HIS:CD2	2.32	0.47
1:B:393:LEU:HD12	1:B:393:LEU:HA	1.80	0.46
1:C:454:ARG:O	1:C:457:LEU:HB2	2.16	0.46
1:A:378:THR:OG1	1:A:379:GLY:N	2.49	0.46
1:A:464:ASP:O	1:A:468:GLU:HB2	2.16	0.45
1:B:417:THR:O	1:B:421:THR:HG23	2.16	0.45
1:B:397:TYR:OH	1:B:490:ASN:ND2	2.49	0.45
1:D:378:THR:HG23	1:D:380:ALA:N	2.31	0.45
1:A:376:PHE:HE2	1:A:427:TYR:HH	1.65	0.45
1:B:379:GLY:C	1:B:382:LYS:HZ1	2.19	0.45
1:D:449:GLU:O	1:D:454:ARG:HB2	2.18	0.44
1:D:490:ASN:HA	6:D:702:HOH:O	2.17	0.44
1:D:377:PHE:CE2	1:D:424:LEU:HG	2.53	0.44
1:B:384:ILE:H	1:B:384:ILE:HG12	1.63	0.43
1:C:445:LEU:O	1:C:449:GLU:HG2	2.18	0.43
1:D:455:GLU:OE2	1:D:455:GLU:N	2.35	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:444:LEU:HD12	1:D:444:LEU:HA	1.84	0.42
1:A:379:GLY:HA2	1:A:382:LYS:HE2	2.02	0.42
1:B:446:LYS:O	1:B:450:ASN:HB2	2.19	0.42
1:A:461:LEU:CD1	1:A:464:ASP:H	2.32	0.42
1:A:453:MET:HB3	1:A:492:TRP:HZ3	1.84	0.42
1:B:378:THR:HG23	1:B:382:LYS:HE3	2.01	0.42
1:A:444:LEU:HD12	1:A:444:LEU:HA	1.88	0.42
1:A:468:GLU:HG3	1:C:481:ALA:HB1	2.01	0.42
1:D:374:TYR:HD1	1:D:375:GLY:H	1.67	0.41
1:B:493:THR:OG1	1:B:494:ALA:N	2.53	0.41
1:B:473:ILE:O	1:B:477:ILE:HG12	2.20	0.41
1:B:379:GLY:HA2	1:B:382:LYS:NZ	2.29	0.41
1:B:416:LYS:C	1:B:418:PRO:HD3	2.40	0.41
1:A:384:ILE:HD11	1:A:386:LYS:NZ	2.37	0.40
1:B:386:LYS:HE3	1:B:477:ILE:O	2.21	0.40
1:D:446:LYS:O	1:D:451:PRO:HD3	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	122/158 (77%)	111 (91%)	9 (7%)	2 (2%)	9	17
1	B	125/158 (79%)	119 (95%)	6 (5%)	0	100	100
1	C	120/158 (76%)	117 (98%)	2 (2%)	1 (1%)	19	35
1	D	126/158 (80%)	114 (90%)	8 (6%)	4 (3%)	4	5
All	All	493/632 (78%)	461 (94%)	25 (5%)	7 (1%)	11	20

All (7) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	D	380	ALA
1	D	376	PHE
1	D	451	PRO
1	A	384	ILE
1	A	385	GLU
1	C	457	LEU
1	D	382	LYS

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	111/138 (80%)	106 (96%)	5 (4%)	27	51
1	B	111/138 (80%)	106 (96%)	5 (4%)	27	51
1	C	109/138 (79%)	107 (98%)	2 (2%)	59	81
1	D	112/138 (81%)	107 (96%)	5 (4%)	27	51
All	All	443/552 (80%)	426 (96%)	17 (4%)	33	58

All (17) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	376	PHE
1	A	444	LEU
1	A	453	MET
1	A	461	LEU
1	A	478	HIS
1	B	376	PHE
1	B	398	GLN
1	B	399	ASN
1	B	449	GLU
1	B	460	ARG
1	C	391	LYS
1	C	460	ARG
1	D	374	TYR
1	D	376	PHE
1	D	444	LEU

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Mol	Chain	Res	Type
1	D	459	SER
1	D	478	HIS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (8) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	486	HIS
1	B	486	HIS
1	B	490	ASN
1	C	486	HIS
1	D	383	ASN
1	D	438	ASN
1	D	478	HIS
1	D	490	ASN

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](#)

Of 15 ligands modelled in this entry, 11 are monoatomic - leaving 4 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
3	GOL	B	602	-	5,5,5	0.94	0	5,5,5	1.06	0
3	GOL	D	602	-	5,5,5	0.94	0	5,5,5	1.07	0
3	GOL	A	602	-	5,5,5	0.93	0	5,5,5	1.06	0
3	GOL	B	603	-	5,5,5	0.95	0	5,5,5	1.03	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
3	GOL	B	602	-	-	2/4/4/4	-
3	GOL	D	602	-	-	2/4/4/4	-
3	GOL	A	602	-	-	2/4/4/4	-
3	GOL	B	603	-	-	2/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (8) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	B	603	GOL	O1-C1-C2-O2
3	B	603	GOL	O1-C1-C2-C3
3	D	602	GOL	O1-C1-C2-C3
3	A	602	GOL	O1-C1-C2-C3
3	D	602	GOL	O1-C1-C2-O2
3	A	602	GOL	O1-C1-C2-O2
3	B	602	GOL	O1-C1-C2-C3
3	B	602	GOL	O1-C1-C2-O2

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	B	603	GOL	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

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	125/158 (79%)	0.57	5 (4%) 38 41	37, 54, 89, 100	0
1	B	127/158 (80%)	0.50	8 (6%) 20 21	53, 69, 92, 98	0
1	C	124/158 (78%)	0.56	5 (4%) 38 41	47, 69, 92, 111	0
1	D	128/158 (81%)	0.48	2 (1%) 72 74	40, 56, 91, 105	0
All	All	504/632 (79%)	0.53	20 (3%) 38 41	37, 64, 92, 111	0

All (20) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	457	LEU	3.5
1	A	489	LEU	3.5
1	A	369	GLY	3.1
1	A	376	PHE	3.0
1	D	394	ILE	2.7
1	C	455	GLU	2.7
1	C	491	LEU	2.6
1	B	455	GLU	2.6
1	B	393	LEU	2.6
1	B	489	LEU	2.5
1	C	383	ASN	2.5
1	A	457	LEU	2.4
1	B	485	ILE	2.4
1	D	405	LEU	2.3
1	A	377	PHE	2.2
1	B	394	ILE	2.2
1	B	405	LEU	2.1
1	B	435	LEU	2.1
1	B	491	LEU	2.1
1	C	393	LEU	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 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(\AA^2)	Q<0.9
4	MG	C	602	1/1	0.65	0.11	62,62,62,62	0
2	ZN	C	601	1/1	0.77	0.14	103,103,103,103	1
4	MG	B	604	1/1	0.79	0.09	61,61,61,61	0
3	GOL	B	603	6/6	0.83	0.21	54,58,64,66	0
3	GOL	B	602	6/6	0.84	0.20	58,63,68,68	0
4	MG	D	603	1/1	0.84	0.08	48,48,48,48	0
3	GOL	A	602	6/6	0.85	0.16	48,49,61,62	0
3	GOL	D	602	6/6	0.90	0.17	66,69,70,75	0
5	NA	A	605	1/1	0.91	0.14	46,46,46,46	0
2	ZN	B	601	1/1	0.93	0.12	99,99,99,99	1
4	MG	A	603	1/1	0.96	0.09	50,50,50,50	0
5	NA	A	604	1/1	0.98	0.10	41,41,41,41	0
2	ZN	A	601	1/1	0.99	0.18	50,50,50,50	1
2	ZN	D	601	1/1	0.99	0.12	57,57,57,57	1
5	NA	A	606	1/1	0.99	0.13	52,52,52,52	0

6.5 Other polymers [i](#)

There are no such residues in this entry.