



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 10, 2026 – 04:09 AM UTC

PDB ID : 3ZJD / pdb_00003zjd
Title : A20 OTU domain in reduced, active state at 1.87 Å resolution
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Deposited on : 2013-01-17
Resolution : 1.87 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

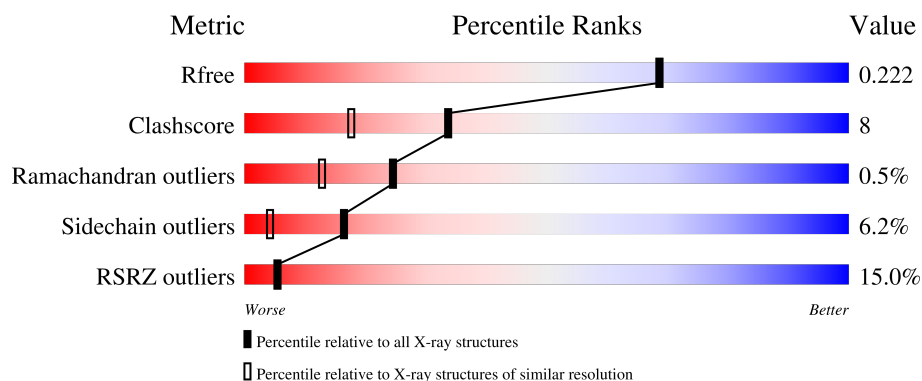
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.87 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	1220 (1.88-1.88)
Clashscore	190562	1234 (1.88-1.88)
Ramachandran outliers	187476	1222 (1.88-1.88)
Sidechain outliers	187428	1222 (1.88-1.88)
RSRZ outliers	180081	1220 (1.88-1.88)

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	366	12% 72% 14% 11%
1	B	366	15% 69% 16% 12%

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 5508 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 A20P50.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	325	Total	C	N	O	S	0	7	0
			2658	1712	464	465	17			
1	B	321	Total	C	N	O	S	5	4	0
			2588	1669	452	452	15			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	114	SER	GLY	engineered mutation	UNP P21580
B	114	SER	GLY	engineered mutation	UNP P21580

- Molecule 2 is CHLORIDE ION (CCD ID: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	1	Total	Cl	0	0
			1	1		
2	B	4	Total	Cl	0	0
			4	4		

- Molecule 3 is 1,2-ETHANEDIOL (CCD ID: EDO) (formula: C₂H₆O₂).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	C	O	0	0
			4	2	2		

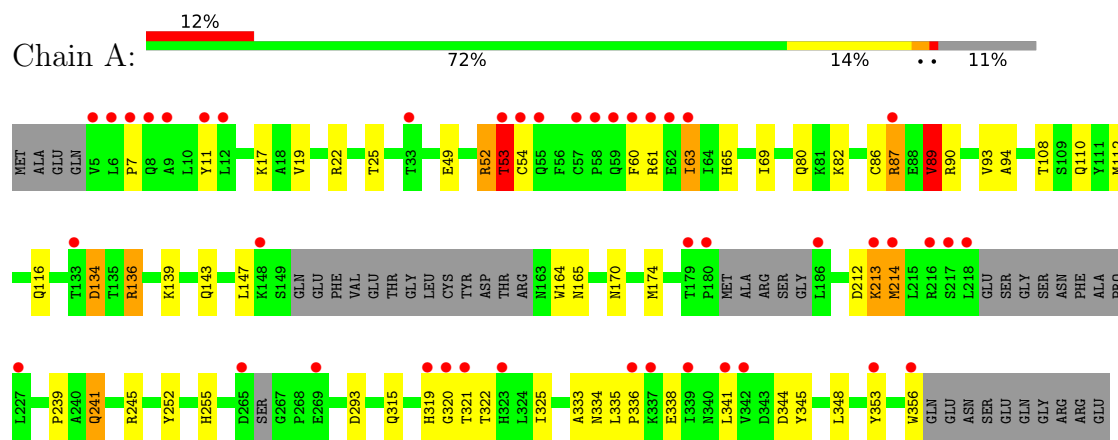
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	144	Total	O	0	0
			144	144		
4	B	109	Total	O	0	0
			109	109		

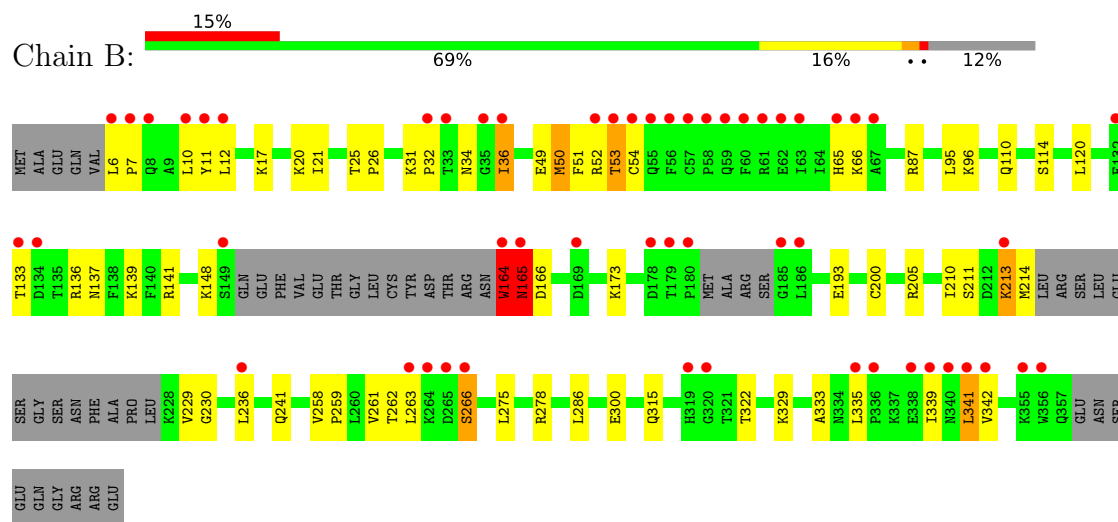
3 Residue-property plots [i](#)

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: A20P50



• Molecule 1: A20P50



4 Data and refinement statistics

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	43.69Å 68.97Å 84.30Å 99.04° 100.09° 96.95°	Depositor
Resolution (Å)	34.29 – 1.87 34.29 – 1.87	Depositor EDS
% Data completeness (in resolution range)	94.4 (34.29-1.87) 94.4 (34.29-1.87)	Depositor EDS
R_{merge}	0.05	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.18 (at 1.87Å)	Xtriage
Refinement program	PHENIX (PHENIX.REFINE)	Depositor
R, R_{free}	0.182 , 0.217 0.188 , 0.222	Depositor DCC
R_{free} test set	3707 reflections (5.02%)	wwPDB-VP
Wilson B-factor (Å ²)	30.7	Xtriage
Anisotropy	0.337	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.38 , 56.5	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	0.96	EDS
Total number of atoms	5508	wwPDB-VP
Average B, all atoms (Å ²)	39.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.59% 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: CL, EDO

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	1.08	1/2737 (0.0%)	1.12	4/3712 (0.1%)
1	B	1.00	2/2652 (0.1%)	1.08	10/3599 (0.3%)
All	All	1.04	3/5389 (0.1%)	1.10	14/7311 (0.2%)

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
1	B	0	2
All	All	0	3

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	94	ALA	CA-CB	8.56	1.64	1.53
1	B	342	VAL	CA-CB	5.97	1.62	1.54
1	B	261	VAL	CA-C	-5.51	1.46	1.52

All (14) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	166	ASP	N-CA-C	-8.25	102.25	113.30
1	B	165	ASN	N-CA-C	7.08	119.24	109.54
1	B	258	VAL	CA-C-N	-6.68	113.05	120.14
1	B	258	VAL	C-N-CA	-6.68	113.05	120.14
1	B	20	LYS	N-CA-C	-6.09	104.72	111.36
1	A	25	THR	CA-C-N	-5.94	113.56	119.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	25	THR	C-N-CA	-5.94	113.56	119.56
1	A	89	VAL	N-CA-C	5.50	117.25	108.89
1	B	31	LYS	CA-C-N	5.37	125.69	119.47
1	B	31	LYS	C-N-CA	5.37	125.69	119.47
1	A	53	THR	N-CA-C	-5.27	105.70	113.61
1	B	278	ARG	N-CA-C	-5.14	102.08	110.20
1	B	164	TRP	CA-C-N	-5.01	115.66	122.87
1	B	164	TRP	C-N-CA	-5.01	115.66	122.87

There are no chirality outliers.

All (3) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	321	THR	Peptide
1	B	165	ASN	Peptide
1	B	266	SER	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	2658	0	2616	39	1
1	B	2588	0	2533	41	1
2	A	1	0	0	0	0
2	B	4	0	0	0	0
3	A	4	0	6	0	0
4	A	144	0	0	2	0
4	B	109	0	0	2	0
All	All	5508	0	5155	80	1

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 (80) 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:52:ARG:NH2	1:B:54:CYS:SG	2.46	0.89
1:B:50:MET:HE3	1:B:50:MET:HA	1.57	0.86
1:B:53:THR:OG1	1:B:65:HIS:NE2	2.04	0.81
1:B:53:THR:HG1	1:B:65:HIS:HE2	0.78	0.77
1:B:32:PRO:HG2	1:B:36:ILE:HG12	1.70	0.73
1:B:49:GLU:HG2	1:B:262[B]:THR:HG22	1.75	0.69
1:A:53:THR:HG21	1:A:65:HIS:NE2	2.11	0.66
1:A:87:ARG:HE	1:A:87:ARG:N	1.91	0.65
1:A:241:GLN:H	1:A:241:GLN:CD	2.05	0.63
1:B:50:MET:HE2	1:B:51:PHE:H	1.64	0.62
1:A:52:ARG:NH1	1:A:54:CYS:HB3	2.14	0.62
1:B:11:TYR:HA	1:B:341:LEU:HG	1.81	0.61
1:B:193:GLU:HG3	1:B:229:VAL:HG12	1.85	0.59
1:B:211:SER:O	1:B:214:MET:HG3	2.03	0.59
1:A:239:PRO:HB2	1:A:241:GLN:HE21	1.67	0.58
1:A:69:ILE:HD12	1:A:93[B]:VAL:CG2	2.34	0.58
1:A:7:PRO:HG2	1:A:345:TYR:CE2	2.39	0.58
1:A:82:LYS:HE2	1:A:213:LYS:HB3	1.86	0.57
1:A:52:ARG:HA	1:A:52:ARG:HE	1.68	0.57
1:B:66:LYS:O	1:B:96:LYS:NZ	2.21	0.55
1:A:11:TYR:HA	1:A:341:LEU:HD13	1.89	0.55
1:B:49:GLU:HG3	1:B:333:ALA:HB2	1.87	0.55
1:A:86[B]:CYS:HB3	1:A:89:VAL:HG22	1.89	0.55
1:B:50:MET:HE3	1:B:50:MET:CA	2.33	0.55
1:B:211:SER:H	1:B:214:MET:HG3	1.70	0.54
1:A:86[A]:CYS:HA	1:A:87:ARG:HH21	1.71	0.54
1:B:52:ARG:HD2	1:B:263:LEU:HG	1.89	0.54
1:A:143:GLN:HE21	1:A:164:TRP:CG	2.26	0.54
1:B:114:SER:OG	1:B:341:LEU:HB2	2.08	0.54
1:B:241:GLN:H	1:B:241:GLN:CD	2.16	0.54
1:A:80:GLN:NE2	1:A:212:ASP:OD1	2.36	0.53
1:A:319:HIS:N	4:A:2139:HOH:O	2.21	0.53
1:B:25:THR:OG1	1:B:26:PRO:HD3	2.09	0.52
1:A:17:LYS:NZ	1:A:344:ASP:OD2	2.34	0.51
1:B:214:MET:HE2	1:B:286[B]:LEU:HG	1.92	0.51
1:A:139:LYS:NZ	1:A:165:ASN:OD1	2.42	0.50
1:B:214:MET:HE2	1:B:286[A]:LEU:HD22	1.91	0.50
1:B:214:MET:HA	1:B:230:GLY:HA3	1.93	0.50
1:A:49:GLU:HB2	1:A:333:ALA:HB2	1.95	0.49
1:B:34:ASN:OD1	1:B:36:ILE:HG23	2.12	0.49
1:A:214:MET:SD	1:A:214:MET:N	2.79	0.49
1:B:211:SER:H	1:B:214:MET:CG	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:52:ARG:HA	1:A:52:ARG:NE	2.28	0.47
1:B:137:ASN:ND2	1:B:141:ARG:HE	2.12	0.47
1:B:49:GLU:CG	1:B:333:ALA:HB2	2.45	0.47
1:A:60:PHE:O	1:A:63:ILE:HG22	2.15	0.47
1:B:335:LEU:HD22	1:B:339:ILE:HG13	1.96	0.46
1:A:53:THR:HG21	1:A:65:HIS:CE1	2.50	0.46
1:A:87:ARG:HH12	1:A:315:GLN:H	1.61	0.46
1:B:164:TRP:CD1	1:B:165:ASN:HB2	2.51	0.46
1:B:21:ILE:HD12	1:B:341:LEU:HD22	1.98	0.46
1:B:148:LYS:HE3	4:B:2058:HOH:O	2.15	0.45
1:A:22:ARG:NH2	4:A:2005:HOH:O	2.42	0.45
1:A:54:CYS:O	1:A:61:ARG:NH2	2.44	0.45
1:A:241:GLN:CD	1:A:241:GLN:N	2.74	0.45
1:B:200:CYS:HB2	1:B:205:ARG:O	2.16	0.45
1:A:170:ASN:O	1:A:174[B]:MET:HG2	2.17	0.45
1:B:210:ILE:HA	1:B:214:MET:HE3	1.99	0.44
1:B:275:LEU:C	1:B:286[A]:LEU:HG	2.42	0.44
1:B:95:LEU:HB2	1:B:259:PRO:HG2	2.00	0.43
1:B:211:SER:OG	1:B:213:LYS:HD2	2.18	0.43
1:A:69:ILE:HD12	1:A:93[B]:VAL:HG22	2.00	0.43
1:B:329:LYS:HD3	4:B:2082:HOH:O	2.18	0.43
1:A:110:GLN:HG3	1:A:116:GLN:HG2	2.01	0.42
1:A:252:TYR:OH	1:A:255:HIS:HA	2.19	0.42
1:A:69:ILE:HD12	1:A:93[B]:VAL:HG21	2.01	0.42
1:B:49:GLU:CG	1:B:262[B]:THR:HG22	2.48	0.42
1:B:87:ARG:NH2	1:B:315:GLN:OE1	2.53	0.42
1:B:137:ASN:HD21	1:B:141:ARG:HE	1.68	0.42
1:A:334:ASN:O	1:A:336:PRO:HD3	2.19	0.42
1:B:6:LEU:HA	1:B:7:PRO:HD2	1.90	0.42
1:A:353:TYR:O	1:A:356:TRP:N	2.46	0.41
1:B:21:ILE:CD1	1:B:341:LEU:HD22	2.51	0.41
1:A:134:ASP:OD1	1:A:136:ARG:NH1	2.54	0.41
1:A:108:THR:HG22	1:A:112:MET:HE2	2.02	0.41
1:B:17:LYS:HD2	1:B:341:LEU:HD13	2.04	0.40

All (1) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:293:ASP:OD2	1:B:139:LYS:NZ[1_444]	2.18	0.02

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	322/366 (88%)	310 (96%)	10 (3%)	2 (1%)	21	10
1	B	317/366 (87%)	304 (96%)	12 (4%)	1 (0%)	36	26
All	All	639/732 (87%)	614 (96%)	22 (3%)	3 (0%)	24	13

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	133	THR
1	A	320	GLY
1	A	338	GLU

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	286/336 (85%)	268 (94%)	18 (6%)	16	4
1	B	273/336 (81%)	255 (93%)	18 (7%)	15	4
All	All	559/672 (83%)	523 (94%)	36 (6%)	16	4

All (36) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	19	VAL
1	A	52	ARG
1	A	53	THR

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Mol	Chain	Res	Type
1	A	63	ILE
1	A	87	ARG
1	A	89	VAL
1	A	90	ARG
1	A	134	ASP
1	A	136	ARG
1	A	147	LEU
1	A	213	LYS
1	A	214	MET
1	A	241	GLN
1	A	245	ARG
1	A	322	THR
1	A	325	ILE
1	A	335	LEU
1	A	348	LEU
1	B	10	LEU
1	B	12	LEU
1	B	36	ILE
1	B	50	MET
1	B	53	THR
1	B	110	GLN
1	B	120	LEU
1	B	136	ARG
1	B	164	TRP
1	B	173	LYS
1	B	213	LYS
1	B	236[A]	LEU
1	B	236[B]	LEU
1	B	266	SER
1	B	300	GLU
1	B	322[A]	THR
1	B	322[B]	THR
1	B	341	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (5) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	110	GLN
1	A	241	GLN
1	A	319	HIS
1	B	137	ASN
1	B	296	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 6 ligands modelled in this entry, 5 are monoatomic - leaving 1 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	EDO	A	1358	-	3,3,3	0.98	0	2,2,2	0.54	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	EDO	A	1358	-	-	1/1/1/1	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (1) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	1358	EDO	O1-C1-C2-O2

There are no ring outliers.

No monomer is involved in short contacts.

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	325/366 (88%)	0.56	43 (13%) 7 8	10, 36, 69, 91	7 (2%)
1	B	321/366 (87%)	0.77	54 (16%) 4 5	12, 39, 75, 109	5 (1%)
All	All	646/732 (88%)	0.67	97 (15%) 5 5	10, 37, 71, 109	12 (1%)

All (97) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	5	VAL	6.8
1	B	57	CYS	6.7
1	B	33	THR	6.2
1	B	58	PRO	6.1
1	A	356	TRP	5.8
1	A	321	THR	5.3
1	A	227	LEU	5.1
1	B	11	TYR	5.1
1	B	53	THR	4.9
1	B	54	CYS	4.9
1	B	63	ILE	4.8
1	B	340	ASN	4.8
1	B	133	THR	4.8
1	B	213	LYS	4.6
1	A	11	TYR	4.6
1	B	59	GLN	4.3
1	B	236[A]	LEU	4.2
1	B	335	LEU	4.2
1	B	61	ARG	4.0
1	B	56	PHE	3.9
1	A	6	LEU	3.9
1	B	8	GLN	3.9
1	A	54	CYS	3.9
1	B	6	LEU	3.9

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Mol	Chain	Res	Type	RSRZ
1	B	356	TRP	3.9
1	B	134	ASP	3.8
1	A	319	HIS	3.7
1	B	66	LYS	3.7
1	B	266	SER	3.6
1	B	62	GLU	3.6
1	A	148	LYS	3.6
1	B	132	GLU	3.6
1	A	53	THR	3.5
1	A	9	ALA	3.5
1	A	341	LEU	3.5
1	A	320	GLY	3.5
1	B	60	PHE	3.4
1	B	320	GLY	3.4
1	A	33	THR	3.4
1	A	342	VAL	3.4
1	A	55	GLN	3.4
1	B	265	ASP	3.4
1	B	186	LEU	3.3
1	B	164	TRP	3.3
1	A	186	LEU	3.2
1	A	337	LYS	3.2
1	A	59	GLN	3.2
1	B	36	ILE	3.1
1	B	149	SER	3.1
1	B	179	THR	3.0
1	B	7	PRO	3.0
1	A	218	LEU	3.0
1	A	217	SER	2.9
1	B	52	ARG	2.9
1	B	67	ALA	2.9
1	A	63	ILE	2.9
1	A	7	PRO	2.8
1	B	336	PRO	2.8
1	A	57	CYS	2.8
1	A	62	GLU	2.8
1	A	58	PRO	2.8
1	B	185	GLY	2.8
1	A	12	LEU	2.7
1	B	178	ASP	2.7
1	B	342	VAL	2.7
1	A	214	MET	2.7

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Mol	Chain	Res	Type	RSRZ
1	B	32	PRO	2.7
1	B	65	HIS	2.5
1	A	269	GLU	2.5
1	A	179	THR	2.5
1	A	87	ARG	2.5
1	A	8	GLN	2.5
1	B	10	LEU	2.5
1	B	12	LEU	2.4
1	B	264	LYS	2.4
1	A	180	PRO	2.4
1	B	55	GLN	2.4
1	B	338	GLU	2.4
1	A	61	ARG	2.3
1	B	339	ILE	2.3
1	A	265	ASP	2.2
1	A	216	ARG	2.2
1	B	319	HIS	2.2
1	A	133	THR	2.2
1	B	169	ASP	2.2
1	A	213	LYS	2.2
1	B	355	LYS	2.2
1	A	353	TYR	2.1
1	A	323	HIS	2.1
1	A	60	PHE	2.1
1	B	35	GLY	2.1
1	B	180	PRO	2.1
1	B	341	LEU	2.1
1	A	339	ILE	2.0
1	B	165	ASN	2.0
1	B	263	LEU	2.0
1	A	336	PRO	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 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
3	EDO	A	1358	4/4	0.83	0.17	38,41,46,47	0
2	CL	B	1361	1/1	0.94	0.09	41,41,41,41	0
2	CL	A	1357	1/1	0.96	0.07	35,35,35,35	0
2	CL	B	1359	1/1	0.99	0.05	21,21,21,21	0
2	CL	B	1360	1/1	0.99	0.05	25,25,25,25	0
2	CL	B	1358	1/1	1.00	0.04	26,26,26,26	0

6.5 Other polymers [i](#)

There are no such residues in this entry.