



Full wwPDB X-ray Structure Validation Report ⓘ

Aug 13, 2017 – 11:54 AM EDT

PDB ID : 5OKM
Title : Crystal structure of human SHIP2 Phosphatase-C2
Authors : Le Coq, J.; Lietha, D.
Deposited on : unknown
Resolution : 1.96 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

<http://wwpdb.org/validation/2016/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

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

MolProbity : 4.02b-467
Mogul : 1.7.2 (RC1), CSD as538be (2017)
Xtriage (Phenix) : 1.9-1692
EDS : rb-20029824
Percentile statistics : 20161228.v01 (using entries in the PDB archive December 28th 2016)
Refmac : 5.8.0135
CCP4 : 6.5.0
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : rb-20029824

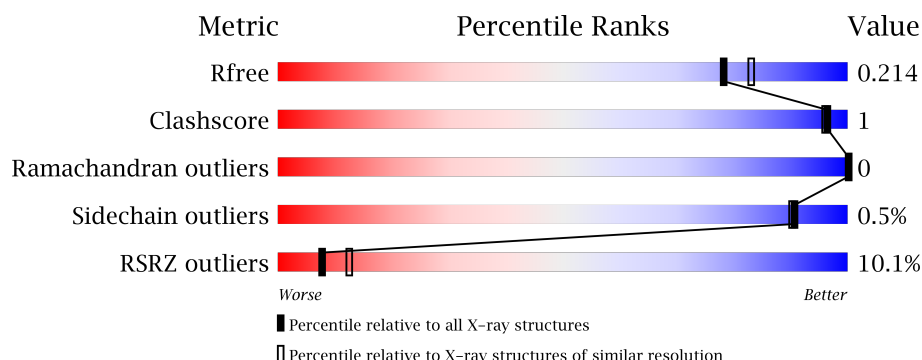
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.96 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}	100719	2004 (1.96-1.96)
Clashscore	112137	2136 (1.96-1.96)
Ramachandran outliers	110173	2117 (1.96-1.96)
Sidechain outliers	110143	2117 (1.96-1.96)
RSRZ outliers	101464	2018 (1.96-1.96)

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. 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	461	<div> <div>10%</div> <div> <div></div> <div>88%</div> <div>6%</div> <div>6%</div> </div> </div>
1	B	461	<div> <div>7%</div> <div> <div></div> <div>93%</div> <div>•</div> <div>•</div> </div> </div>
1	C	461	<div> <div>14%</div> <div> <div></div> <div>91%</div> <div>•</div> <div>7%</div> </div> </div>
1	D	461	<div> <div>5%</div> <div> <div></div> <div>91%</div> <div>•</div> <div>5%</div> </div> </div>
1	E	461	<div> <div>9%</div> <div> <div></div> <div>92%</div> <div>•</div> <div>6%</div> </div> </div>

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Mol	Chain	Length	Quality of chain
1	F	461	
1	G	461	
1	H	461	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
2	B3P	A	901	-	-	-	X
2	B3P	C	901	-	-	-	X
2	B3P	E	901	-	-	-	X
4	EDO	A	903	-	-	-	X
4	EDO	A	907	-	-	-	X
4	EDO	B	905	-	-	-	X
4	EDO	C	903	-	-	-	X
4	EDO	D	905	-	-	-	X
4	EDO	D	906	-	-	-	X
4	EDO	F	902	-	-	-	X
4	EDO	F	903	-	-	-	X
4	EDO	G	901	-	-	-	X

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 29931 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 Phosphatidylinositol 3,4,5-trisphosphate 5-phosphatase 2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	435	Total	C	N	O	S	0	3	0
			3529	2251	596	668	14			
1	B	442	Total	C	N	O	S	0	4	0
			3591	2290	607	680	14			
1	C	431	Total	C	N	O	S	0	0	0
			3488	2222	589	663	14			
1	D	436	Total	C	N	O	S	0	1	0
			3532	2252	598	668	14			
1	E	432	Total	C	N	O	S	0	5	0
			3525	2251	594	666	14			
1	F	433	Total	C	N	O	S	0	0	0
			3506	2236	595	661	14			
1	G	431	Total	C	N	O	S	0	2	0
			3497	2230	590	663	14			
1	H	427	Total	C	N	O	S	0	3	0
			3474	2218	584	658	14			

There are 16 discrepancies between the modelled and reference sequences:

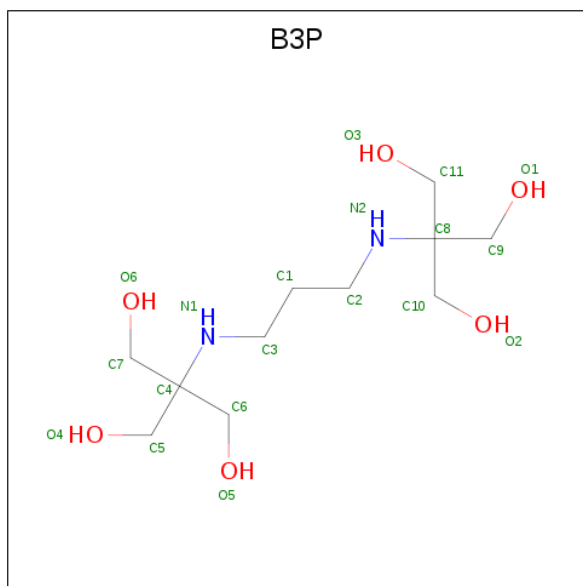
Chain	Residue	Modelled	Actual	Comment	Reference
A	418	GLY	-	expression tag	UNP O15357
A	419	PRO	-	expression tag	UNP O15357
B	418	GLY	-	expression tag	UNP O15357
B	419	PRO	-	expression tag	UNP O15357
C	418	GLY	-	expression tag	UNP O15357
C	419	PRO	-	expression tag	UNP O15357
D	418	GLY	-	expression tag	UNP O15357
D	419	PRO	-	expression tag	UNP O15357
E	418	GLY	-	expression tag	UNP O15357
E	419	PRO	-	expression tag	UNP O15357
F	418	GLY	-	expression tag	UNP O15357
F	419	PRO	-	expression tag	UNP O15357
G	418	GLY	-	expression tag	UNP O15357

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Chain	Residue	Modelled	Actual	Comment	Reference
G	419	PRO	-	expression tag	UNP O15357
H	418	GLY	-	expression tag	UNP O15357
H	419	PRO	-	expression tag	UNP O15357

- Molecule 2 is 2-[3-(2-HYDROXY-1,1-DIHYDROXYMETHYL-ETHYLAMINO)-PROPYL AMINO]-2-HYDROXYMETHYL-PROPANE-1,3-DIOL (three-letter code: B3P) (formula: $C_{11}H_{26}N_2O_6$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	C	N	O	0	0
			19	11	2	6		
2	B	1	Total	C	N	O	0	0
			19	11	2	6		
2	C	1	Total	C	N	O	0	0
			19	11	2	6		
2	D	1	Total	C	N	O	0	0
			19	11	2	6		
2	E	1	Total	C	N	O	0	0
			19	11	2	6		
2	F	1	Total	C	N	O	0	0
			19	11	2	6		
2	H	1	Total	C	N	O	0	0
			19	11	2	6		

- Molecule 3 is NITRATE ION (three-letter code: NO3) (formula: NO_3).



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

- Molecule 4 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: C₂H₆O₂).



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

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	A	1	Total 4	C 2	O 2	0	0
4	A	1	Total 4	C 2	O 2	0	0
4	A	1	Total 4	C 2	O 2	0	0
4	B	1	Total 4	C 2	O 2	0	0
4	B	1	Total 4	C 2	O 2	0	0
4	B	1	Total 4	C 2	O 2	0	0
4	B	1	Total 4	C 2	O 2	0	0
4	C	1	Total 4	C 2	O 2	0	0
4	D	1	Total 4	C 2	O 2	0	0
4	D	1	Total 4	C 2	O 2	0	0
4	D	1	Total 4	C 2	O 2	0	0
4	D	1	Total 4	C 2	O 2	0	0
4	D	1	Total 4	C 2	O 2	0	0
4	D	1	Total 4	C 2	O 2	0	0
4	F	1	Total 4	C 2	O 2	0	0
4	F	1	Total 4	C 2	O 2	0	0
4	F	1	Total 4	C 2	O 2	0	0
4	F	1	Total 4	C 2	O 2	0	0
4	G	1	Total 4	C 2	O 2	0	0
4	H	1	Total 4	C 2	O 2	0	0

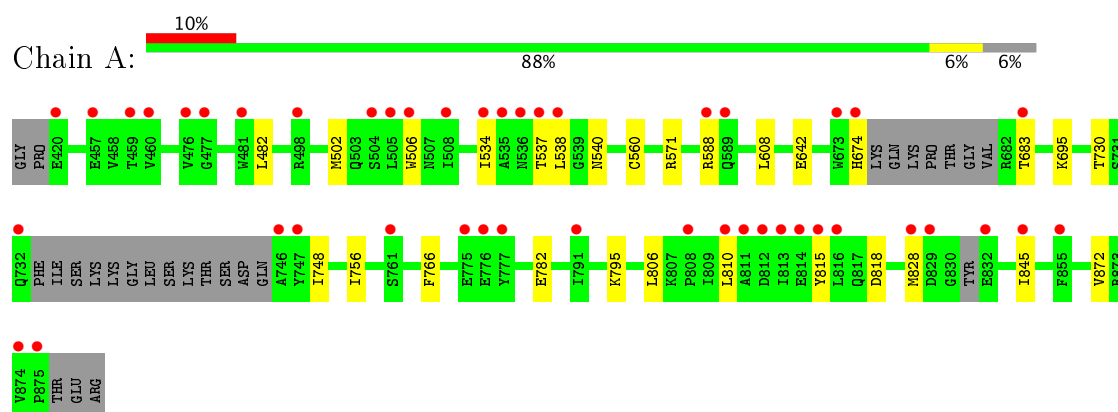
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	220	Total 220	O 220	0	0
5	B	232	Total 232	O 232	0	0
5	C	157	Total 157	O 157	0	0
5	D	187	Total 187	O 187	0	0
5	E	206	Total 206	O 206	0	0
5	F	190	Total 190	O 190	0	0
5	G	150	Total 150	O 150	0	0
5	H	222	Total 222	O 222	0	0

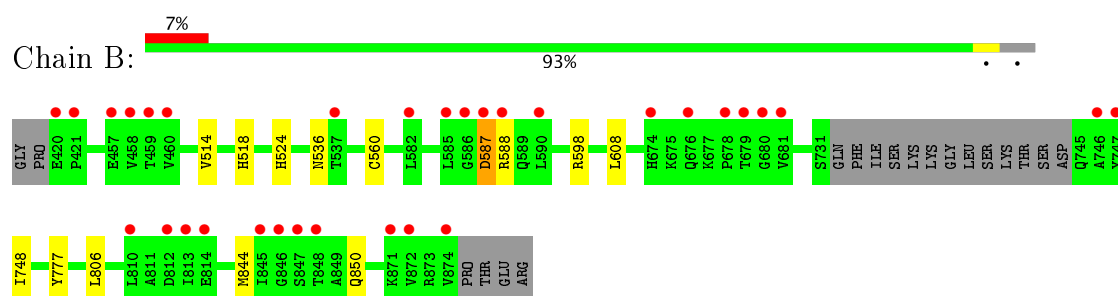
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA and DNA 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.

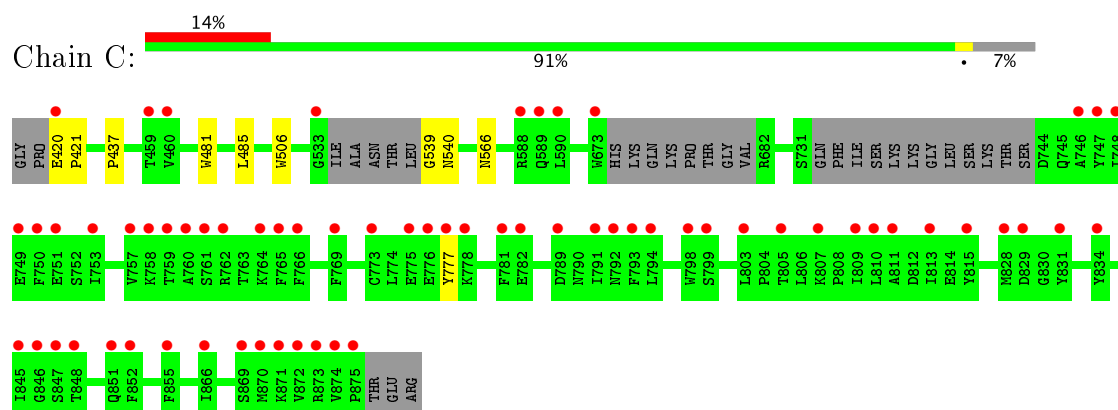
- Molecule 1: Phosphatidylinositol 3,4,5-trisphosphate 5-phosphatase 2



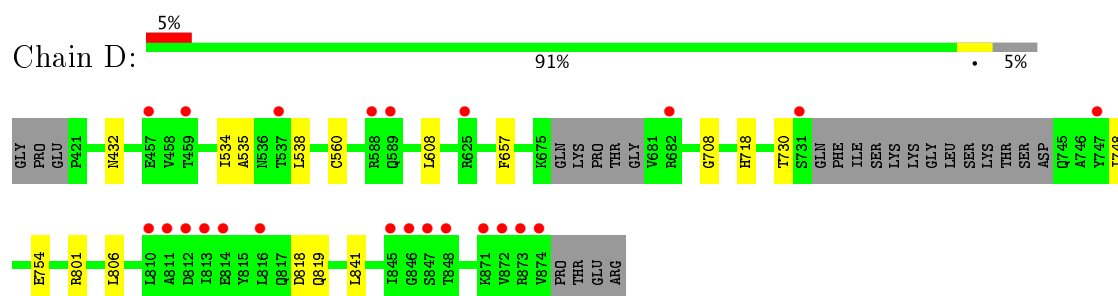
- Molecule 1: Phosphatidylinositol 3,4,5-trisphosphate 5-phosphatase 2



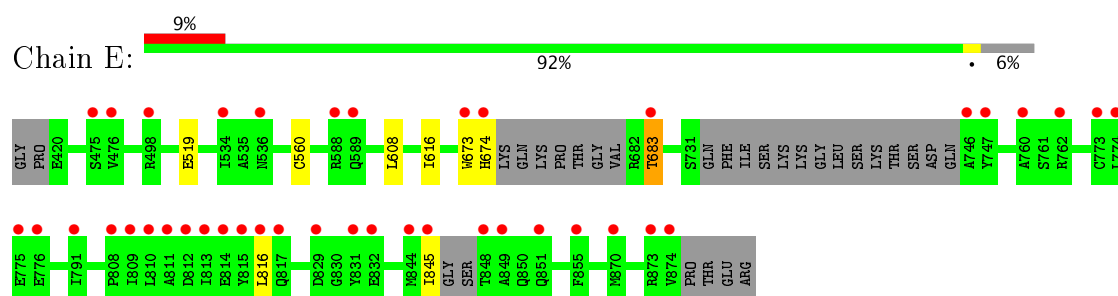
- Molecule 1: Phosphatidylinositol 3,4,5-trisphosphate 5-phosphatase 2



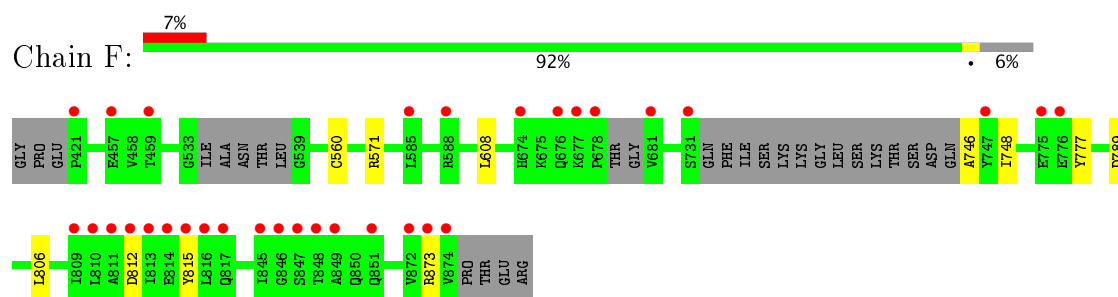
- Molecule 1: Phosphatidylinositol 3,4,5-trisphosphate 5-phosphatase 2



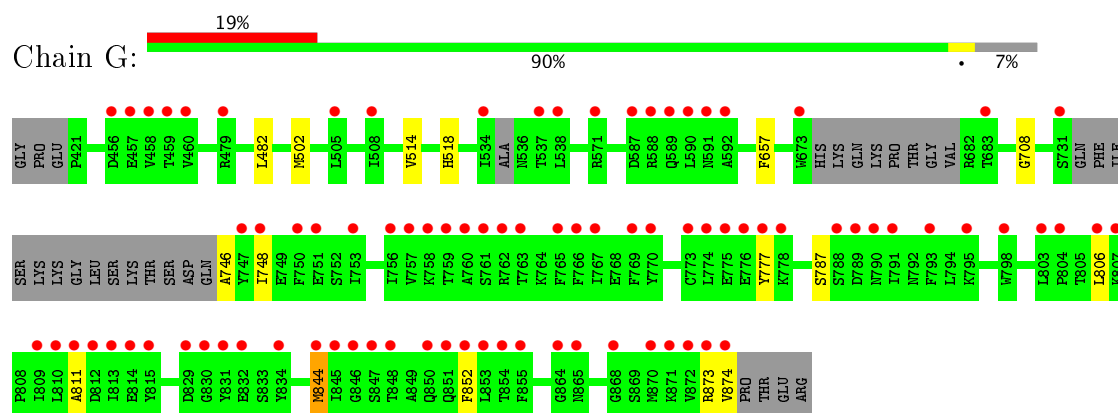
- Molecule 1: Phosphatidylinositol 3,4,5-trisphosphate 5-phosphatase 2



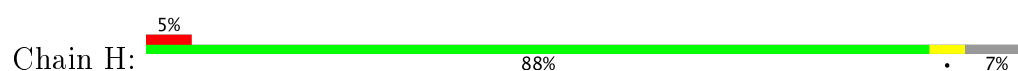
- Molecule 1: Phosphatidylinositol 3,4,5-trisphosphate 5-phosphatase 2

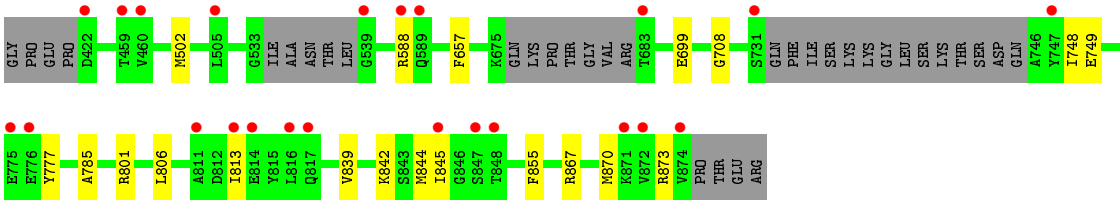


- Molecule 1: Phosphatidylinositol 3,4,5-trisphosphate 5-phosphatase 2



- Molecule 1: Phosphatidylinositol 3,4,5-trisphosphate 5-phosphatase 2





4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	136.04Å 175.84Å 176.89Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	48.96 – 1.96 48.86 – 1.96	Depositor EDS
% Data completeness (in resolution range)	100.0 (48.96-1.96) 100.0 (48.86-1.96)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.19 (at 1.97Å)	Xtriage
Refinement program	REFMAC 5.8.0158	Depositor
R, R_{free}	0.179 , 0.207 0.188 , 0.214	Depositor DCC
R_{free} test set	15180 reflections (5.29%)	DCC
Wilson B-factor (Å ²)	29.0	Xtriage
Anisotropy	0.545	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 44.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.47$, $\langle L^2 \rangle = 0.30$	Xtriage
Estimated twinning fraction	0.035 for -h,l,k	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	29931	wwPDB-VP
Average B, all atoms (Å ²)	46.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.29% 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: B3P, EDO, NO3

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	0/3619	0.72	0/4900
1	B	0.52	0/3687	0.72	1/4993 (0.0%)
1	C	0.48	0/3569	0.69	0/4831
1	D	0.49	0/3617	0.70	0/4896
1	E	0.49	0/3621	0.69	0/4903
1	F	0.48	0/3588	0.70	1/4854 (0.0%)
1	G	0.46	0/3583	0.66	0/4849
1	H	0.52	0/3564	0.72	0/4822
All	All	0.50	0/28848	0.70	2/39048 (0.0%)

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	571	ARG	NE-CZ-NH2	-5.04	117.78	120.30
1	B	598	ARG	NE-CZ-NH2	-5.02	117.79	120.30

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	3529	0	3459	18	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	B	3591	0	3527	9	0
1	C	3488	0	3399	5	0
1	D	3532	0	3459	10	0
1	E	3525	0	3457	4	0
1	F	3506	0	3432	5	0
1	G	3497	0	3422	10	0
1	H	3474	0	3391	13	0
2	A	19	0	26	0	0
2	B	19	0	26	0	0
2	C	19	0	26	0	0
2	D	19	0	26	0	0
2	E	19	0	26	0	0
2	F	19	0	26	0	0
2	H	19	0	26	0	0
3	A	4	0	0	0	0
3	C	4	0	0	0	0
4	A	20	0	30	0	0
4	B	16	0	24	0	0
4	C	4	0	6	0	0
4	D	20	0	30	1	0
4	F	16	0	24	0	0
4	G	4	0	6	0	0
4	H	4	0	6	0	0
5	A	220	0	0	1	0
5	B	232	0	0	0	0
5	C	157	0	0	0	0
5	D	187	0	0	1	0
5	E	206	0	0	0	0
5	F	190	0	0	0	0
5	G	150	0	0	0	0
5	H	222	0	0	0	0
All	All	29931	0	27854	68	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 1.

All (68) 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:524:HIS:HB3	1:B:587:ASP:HB3	1.49	0.94
1:G:746:ALA:N	1:G:873:ARG:O	2.22	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:746:ALA:HB2	1:G:811:ALA:CB	2.32	0.60
1:G:844:MET:HE1	1:G:852:PHE:HB3	1.83	0.59
1:A:730:THR:HG21	1:A:818:ASP:HB3	1.85	0.59
1:G:748:ILE:HB	1:G:806:LEU:HB2	1.86	0.58
1:C:437:PRO:HD3	1:H:502:MET:HG2	1.86	0.56
1:B:536:ASN:HD22	1:H:785:ALA:HA	1.69	0.56
1:A:766:PHE:HB3	1:A:828:MET:HE1	1.90	0.54
1:C:506:TRP:CE3	1:C:540:ASN:HA	2.43	0.54
1:H:839:VAL:HG11	1:H:870:MET:HE1	1.90	0.54
1:A:506:TRP:CE3	1:A:540:ASN:HA	2.42	0.54
1:G:746:ALA:HB2	1:G:811:ALA:HB1	1.90	0.54
1:D:560:CYS:SG	1:D:608:LEU:HD22	2.47	0.54
1:D:748:ILE:HB	1:D:806:LEU:HB2	1.92	0.50
1:F:560:CYS:SG	1:F:608:LEU:HD22	2.51	0.50
1:A:845:ILE:HD13	1:A:872:VAL:HB	1.94	0.50
1:B:536:ASN:ND2	1:H:785:ALA:HA	2.26	0.50
1:H:813:ILE:HG23	1:H:845:ILE:HG21	1.94	0.49
1:H:749:GLU:OE2	1:H:873:ARG:NE	2.45	0.49
1:D:730:THR:HG21	1:D:818:ASP:HB3	1.94	0.48
1:G:746:ALA:HB2	1:G:811:ALA:HB2	1.96	0.48
1:H:844:MET:HE3	1:H:870:MET:HB3	1.95	0.48
1:A:766:PHE:HB3	1:A:828:MET:CE	2.44	0.48
1:A:748:ILE:HG12	1:A:872:VAL:HG22	1.96	0.47
1:B:588:ARG:HG2	1:B:588:ARG:O	2.15	0.47
1:C:420:GLU:CB	1:C:421:PRO:HD3	2.44	0.47
1:A:482:LEU:HD13	1:A:502:MET:HE3	1.97	0.47
1:D:819:GLN:HB2	1:D:841:LEU:HD12	1.97	0.47
1:E:816:LEU:HB3	1:E:845:ILE:HD11	1.97	0.47
1:G:657:PHE:CD1	1:G:708:GLY:HA2	2.50	0.47
1:B:560:CYS:SG	1:B:608:LEU:HD22	2.55	0.46
1:G:514:VAL:HG22	1:G:518:HIS:HB2	1.98	0.46
1:A:674:HIS:HB2	1:A:683:THR:OG1	2.14	0.46
1:D:534:ILE:HD11	1:F:789:ASP:HA	1.98	0.46
1:G:844:MET:CE	1:G:852:PHE:HB3	2.45	0.46
1:D:801:ARG:NH1	5:D:1003:HOH:O	2.46	0.45
1:E:616:ILE:HD13	1:E:673:TRP:HB2	1.98	0.45
1:A:560:CYS:SG	1:A:608:LEU:HD22	2.56	0.45
1:A:695:LYS:NZ	5:A:1011:HOH:O	2.50	0.45
1:B:844:MET:CG	1:B:850:GLN:HB2	2.47	0.45
1:B:748:ILE:HB	1:B:806:LEU:HB2	1.99	0.45
1:F:748:ILE:HB	1:F:806:LEU:HB2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:534:ILE:HG23	1:A:537:THR:OG1	2.17	0.44
1:A:782:GLU:HG3	1:A:828:MET:HE3	1.99	0.44
1:C:539:GLY:HA3	1:H:588:ARG:HD2	1.98	0.44
1:B:514:VAL:HG22	1:B:518:HIS:HB2	1.99	0.44
1:H:699:GLU:HB3	1:H:842:LYS:HE2	1.98	0.44
1:D:754:GLU:HB3	4:D:906:EDO:H21	2.00	0.44
1:A:588:ARG:HH21	1:H:801:ARG:HG3	1.82	0.43
1:A:482:LEU:HB2	1:A:502:MET:CE	2.49	0.43
1:F:746:ALA:HA	1:F:873:ARG:O	2.18	0.43
1:E:560:CYS:SG	1:E:608:LEU:HD22	2.59	0.43
1:H:657:PHE:CD1	1:H:708:GLY:HA2	2.54	0.42
1:A:534:ILE:CD1	1:A:571:ARG:HE	2.33	0.42
1:C:481:TRP:CZ2	1:C:485:LEU:HD11	2.54	0.42
1:A:756:ILE:HD11	1:A:795:LYS:HE2	2.01	0.42
1:D:535:ALA:HB3	1:D:538:LEU:HD12	2.02	0.42
1:A:810:LEU:HD23	1:A:815:TYR:CG	2.55	0.42
1:F:812:ASP:HB3	1:F:815:TYR:HB3	2.02	0.41
1:G:482:LEU:HD22	1:G:502:MET:HE2	2.02	0.41
1:E:674:HIS:HB2	1:E:683:THR:OG1	2.20	0.41
1:B:844:MET:HG2	1:B:850:GLN:HB2	2.02	0.41
1:D:657:PHE:CD1	1:D:708:GLY:HA2	2.56	0.41
1:A:748:ILE:HB	1:A:806:LEU:HB2	2.03	0.41
1:H:813:ILE:HD12	1:H:813:ILE:H	1.86	0.40
1:H:748:ILE:HB	1:H:806:LEU:HB2	2.03	0.40
1:D:432:ASN:HB3	1:D:718:HIS:CG	2.57	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	430/461 (93%)	423 (98%)	7 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	B	442/461 (96%)	435 (98%)	7 (2%)	0	100	100
1	C	423/461 (92%)	416 (98%)	7 (2%)	0	100	100
1	D	431/461 (94%)	423 (98%)	8 (2%)	0	100	100
1	E	429/461 (93%)	418 (97%)	11 (3%)	0	100	100
1	F	425/461 (92%)	419 (99%)	6 (1%)	0	100	100
1	G	425/461 (92%)	418 (98%)	7 (2%)	0	100	100
1	H	422/461 (92%)	417 (99%)	5 (1%)	0	100	100
All	All	3427/3688 (93%)	3369 (98%)	58 (2%)	0	100	100

There are no Ramachandran outliers to report.

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	397/417 (95%)	395 (100%)	2 (0%)	91	90
1	B	404/417 (97%)	402 (100%)	2 (0%)	91	90
1	C	391/417 (94%)	389 (100%)	2 (0%)	91	90
1	D	396/417 (95%)	396 (100%)	0	100	100
1	E	397/417 (95%)	395 (100%)	2 (0%)	91	90
1	F	393/417 (94%)	392 (100%)	1 (0%)	94	93
1	G	393/417 (94%)	389 (99%)	4 (1%)	80	78
1	H	390/417 (94%)	386 (99%)	4 (1%)	80	78
All	All	3161/3336 (95%)	3144 (100%)	17 (0%)	91	90

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

Mol	Chain	Res	Type
1	A	538	LEU
1	A	642	GLU

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Mol	Chain	Res	Type
1	B	587	ASP
1	B	777	TYR
1	C	566	ASN
1	C	777	TYR
1	E	519	GLU
1	E	683	THR
1	F	777	TYR
1	G	777	TYR
1	G	787	SER
1	G	844	MET
1	G	874	VAL
1	H	777	TYR
1	H	855[A]	PHE
1	H	855[B]	PHE
1	H	867	ARG

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (7) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	551	ASN
1	A	817	GLN
1	B	536	ASN
1	D	591	ASN
1	F	674	HIS
1	F	850	GLN
1	H	524	HIS

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 carbohydrates in this entry.

5.6 Ligand geometry ⓘ

30 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	B3P	A	901	-	18,18,18	0.95	0	21,23,23	1.12	1 (4%)
3	NO3	A	902	-	1,3,3	0.23	0	0,3,3	0.00	-
4	EDO	A	903	-	3,3,3	0.42	0	2,2,2	0.37	0
4	EDO	A	904	-	3,3,3	0.44	0	2,2,2	0.48	0
4	EDO	A	905	-	3,3,3	0.50	0	2,2,2	0.36	0
4	EDO	A	906	-	3,3,3	0.54	0	2,2,2	0.15	0
4	EDO	A	907	-	3,3,3	0.50	0	2,2,2	0.03	0
2	B3P	B	901	-	18,18,18	1.33	2 (11%)	21,23,23	0.85	0
4	EDO	B	902	-	3,3,3	0.48	0	2,2,2	0.24	0
4	EDO	B	903	-	3,3,3	0.54	0	2,2,2	0.28	0
4	EDO	B	904	-	3,3,3	0.45	0	2,2,2	0.09	0
4	EDO	B	905	-	3,3,3	0.45	0	2,2,2	0.31	0
2	B3P	C	901	-	18,18,18	0.96	1 (5%)	21,23,23	0.86	0
3	NO3	C	902	-	1,3,3	0.33	0	0,3,3	0.00	-
4	EDO	C	903	-	3,3,3	0.49	0	2,2,2	0.27	0
2	B3P	D	901	-	18,18,18	0.86	1 (5%)	21,23,23	0.93	0
4	EDO	D	902	-	3,3,3	0.50	0	2,2,2	0.20	0
4	EDO	D	903	-	3,3,3	0.47	0	2,2,2	0.31	0
4	EDO	D	904	-	3,3,3	0.54	0	2,2,2	0.22	0
4	EDO	D	905	-	3,3,3	0.44	0	2,2,2	0.26	0
4	EDO	D	906	-	3,3,3	0.45	0	2,2,2	0.23	0
2	B3P	E	901	-	18,18,18	1.01	1 (5%)	21,23,23	1.00	1 (4%)
2	B3P	F	901	-	18,18,18	1.02	2 (11%)	21,23,23	0.74	0
4	EDO	F	902	-	3,3,3	0.70	0	2,2,2	0.64	0
4	EDO	F	903	-	3,3,3	0.52	0	2,2,2	0.16	0
4	EDO	F	904	-	3,3,3	0.47	0	2,2,2	0.15	0
4	EDO	F	905	-	3,3,3	0.45	0	2,2,2	0.38	0
4	EDO	G	901	-	3,3,3	0.50	0	2,2,2	0.34	0
2	B3P	H	901	-	18,18,18	0.92	1 (5%)	21,23,23	0.86	0
4	EDO	H	902	-	3,3,3	0.50	0	2,2,2	0.19	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
2	B3P	A	901	-	-	0/28/28/28	0/0/0/0
3	NO3	A	902	-	-	0/0/0/0	0/0/0/0
4	EDO	A	903	-	-	0/1/1/1	0/0/0/0
4	EDO	A	904	-	-	0/1/1/1	0/0/0/0
4	EDO	A	905	-	-	0/1/1/1	0/0/0/0
4	EDO	A	906	-	-	0/1/1/1	0/0/0/0
4	EDO	A	907	-	-	0/1/1/1	0/0/0/0
2	B3P	B	901	-	-	0/28/28/28	0/0/0/0
4	EDO	B	902	-	-	0/1/1/1	0/0/0/0
4	EDO	B	903	-	-	0/1/1/1	0/0/0/0
4	EDO	B	904	-	-	0/1/1/1	0/0/0/0
4	EDO	B	905	-	-	0/1/1/1	0/0/0/0
2	B3P	C	901	-	-	0/28/28/28	0/0/0/0
3	NO3	C	902	-	-	0/0/0/0	0/0/0/0
4	EDO	C	903	-	-	0/1/1/1	0/0/0/0
2	B3P	D	901	-	-	0/28/28/28	0/0/0/0
4	EDO	D	902	-	-	0/1/1/1	0/0/0/0
4	EDO	D	903	-	-	0/1/1/1	0/0/0/0
4	EDO	D	904	-	-	0/1/1/1	0/0/0/0
4	EDO	D	905	-	-	0/1/1/1	0/0/0/0
4	EDO	D	906	-	-	0/1/1/1	0/0/0/0
2	B3P	E	901	-	-	0/28/28/28	0/0/0/0
2	B3P	F	901	-	-	0/28/28/28	0/0/0/0
4	EDO	F	902	-	-	0/1/1/1	0/0/0/0
4	EDO	F	903	-	-	0/1/1/1	0/0/0/0
4	EDO	F	904	-	-	0/1/1/1	0/0/0/0
4	EDO	F	905	-	-	0/1/1/1	0/0/0/0
4	EDO	G	901	-	-	0/1/1/1	0/0/0/0
2	B3P	H	901	-	-	0/28/28/28	0/0/0/0
4	EDO	H	902	-	-	0/1/1/1	0/0/0/0

All (8) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	H	901	B3P	C6-C4	2.02	1.55	1.53
2	D	901	B3P	C10-C8	2.05	1.55	1.53
2	F	901	B3P	C5-C4	2.09	1.55	1.53
2	F	901	B3P	C7-C4	2.52	1.56	1.53
2	C	901	B3P	C7-C4	2.60	1.56	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	E	901	B3P	C7-C4	2.69	1.56	1.53
2	B	901	B3P	C7-C4	2.78	1.56	1.53
2	B	901	B3P	C10-C8	3.48	1.57	1.53

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	901	B3P	C6-C4-C5	-2.71	104.50	110.09
2	E	901	B3P	C11-C8-C10	-2.02	105.93	110.09

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	D	906	EDO	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	435/461 (94%)	0.49	45 (10%) 7 12	23, 39, 72, 93	0
1	B	442/461 (95%)	0.43	32 (7%) 16 25	22, 36, 75, 94	0
1	C	431/461 (93%)	0.75	66 (15%) 2 3	25, 48, 113, 147	0
1	D	436/461 (94%)	0.37	23 (5%) 27 37	24, 42, 74, 93	0
1	E	432/461 (93%)	0.53	41 (9%) 9 14	23, 43, 89, 130	0
1	F	433/461 (93%)	0.45	32 (7%) 15 24	24, 41, 82, 113	0
1	G	431/461 (93%)	0.89	87 (20%) 1 1	27, 47, 107, 149	0
1	H	427/461 (92%)	0.26	23 (5%) 26 37	22, 35, 65, 86	0
All	All	3467/3688 (94%)	0.52	349 (10%) 8 12	22, 41, 88, 149	0

All (349) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	E	874	VAL	8.0
1	G	590	LEU	7.6
1	G	831	TYR	7.6
1	F	747	TYR	7.3
1	B	587	ASP	6.8
1	C	762	ARG	6.7
1	B	810	LEU	6.4
1	D	847	SER	6.2
1	G	847	SER	6.1
1	E	813	ILE	6.1
1	F	872	VAL	6.0
1	F	676	GLN	6.0
1	G	874	VAL	6.0
1	G	747	TYR	5.9
1	A	535	ALA	5.8
1	C	874	VAL	5.7

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Mol	Chain	Res	Type	RSRZ
1	E	811	ALA	5.7
1	F	813	ILE	5.6
1	F	845	ILE	5.6
1	G	811	ALA	5.4
1	F	810	LEU	5.3
1	H	589	GLN	5.3
1	G	460	VAL	5.2
1	C	813	ILE	5.2
1	G	761	SER	5.2
1	H	588	ARG	5.2
1	E	809	ILE	5.2
1	B	872	VAL	5.1
1	B	459	THR	5.1
1	C	811	ALA	5.0
1	G	459	THR	5.0
1	G	791	ILE	4.9
1	B	679	THR	4.9
1	F	816	LEU	4.9
1	D	845	ILE	4.9
1	G	813	ILE	4.9
1	E	810	LEU	4.8
1	A	810	LEU	4.8
1	C	809	ILE	4.7
1	G	758	LYS	4.7
1	C	831	TYR	4.7
1	D	459	THR	4.7
1	B	874	VAL	4.7
1	D	874	VAL	4.6
1	A	791	ILE	4.6
1	A	534	ILE	4.5
1	G	534	ILE	4.5
1	H	459	THR	4.5
1	G	846	GLY	4.5
1	G	848	THR	4.5
1	G	762	ARG	4.4
1	C	810	LEU	4.4
1	G	588	ARG	4.4
1	F	846	GLY	4.4
1	C	775	GLU	4.3
1	E	747	TYR	4.3
1	H	874	VAL	4.3
1	E	831	TYR	4.3

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Mol	Chain	Res	Type	RSRZ
1	D	813	ILE	4.3
1	G	587	ASP	4.3
1	G	810	LEU	4.3
1	A	536	ASN	4.3
1	F	847	SER	4.2
1	F	811	ALA	4.2
1	C	781	PHE	4.2
1	G	832	GLU	4.2
1	B	586	GLY	4.2
1	G	789	ASP	4.2
1	B	813	ILE	4.2
1	C	765	PHE	4.2
1	G	765	PHE	4.2
1	G	829	ASP	4.1
1	E	673	TRP	4.1
1	H	813	ILE	4.1
1	B	537	THR	4.1
1	C	848	THR	4.1
1	C	847	SER	4.0
1	C	673	TRP	4.0
1	H	845	ILE	4.0
1	D	747	TYR	4.0
1	G	777	TYR	4.0
1	B	680	GLY	4.0
1	H	872	VAL	4.0
1	C	873	ARG	4.0
1	E	776	GLU	4.0
1	H	460	VAL	4.0
1	E	760	ALA	3.9
1	G	872	VAL	3.9
1	E	845	ILE	3.9
1	B	845	ILE	3.9
1	E	762	ARG	3.8
1	A	813	ILE	3.8
1	C	747	TYR	3.8
1	G	538	LEU	3.8
1	A	874	VAL	3.8
1	E	816	LEU	3.8
1	D	872	VAL	3.8
1	F	848	THR	3.8
1	C	872	VAL	3.8
1	G	809	ILE	3.7

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Mol	Chain	Res	Type	RSRZ
1	A	875	PRO	3.7
1	B	676	GLN	3.7
1	C	757	VAL	3.7
1	F	459	THR	3.7
1	A	811	ALA	3.7
1	D	811	ALA	3.7
1	D	588	ARG	3.7
1	F	809	ILE	3.7
1	F	776	GLU	3.7
1	E	808	PRO	3.6
1	D	846	GLY	3.6
1	E	589	GLN	3.6
1	G	537	THR	3.6
1	B	871	LYS	3.6
1	E	814	GLU	3.5
1	G	830	GLY	3.5
1	G	790	ASN	3.5
1	C	760	ALA	3.5
1	B	847	SER	3.5
1	G	793	PHE	3.5
1	F	681	VAL	3.5
1	G	873	ARG	3.5
1	E	674	HIS	3.4
1	C	420	GLU	3.4
1	A	832	GLU	3.4
1	D	682	ARG	3.4
1	E	815	TYR	3.4
1	H	747	TYR	3.4
1	C	759	THR	3.3
1	G	845	ILE	3.3
1	F	731	SER	3.3
1	E	791	ILE	3.3
1	D	810	LEU	3.3
1	G	855	PHE	3.3
1	C	782	GLU	3.3
1	A	459	THR	3.3
1	C	746	ALA	3.3
1	C	589	GLN	3.3
1	E	536	ASN	3.2
1	C	776	GLU	3.2
1	C	828	MET	3.2
1	B	590	LEU	3.2

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Mol	Chain	Res	Type	RSRZ
1	B	588	ARG	3.2
1	B	747	TYR	3.2
1	A	746	ALA	3.2
1	A	420	GLU	3.2
1	C	870	MET	3.2
1	A	816	LEU	3.1
1	E	498	ARG	3.1
1	H	847	SER	3.1
1	G	458	VAL	3.1
1	G	870	MET	3.1
1	G	766	PHE	3.1
1	E	746	ALA	3.1
1	A	674	HIS	3.1
1	G	763	THR	3.1
1	G	776	GLU	3.1
1	A	776	GLU	3.1
1	E	775	GLU	3.1
1	C	845	ILE	3.1
1	C	815	TYR	3.1
1	C	751	GLU	3.0
1	B	460	VAL	3.0
1	F	874	VAL	3.0
1	A	538	LEU	3.0
1	C	753	ILE	3.0
1	D	731	SER	3.0
1	C	778	LYS	3.0
1	G	750	PHE	3.0
1	G	852	PHE	3.0
1	F	873	ARG	2.9
1	C	791	ILE	2.9
1	G	775	GLU	2.9
1	A	498	ARG	2.9
1	C	460	VAL	2.9
1	G	815	TYR	2.8
1	F	814	GLU	2.8
1	B	846	GLY	2.8
1	E	851	GLN	2.8
1	G	505	LEU	2.8
1	C	750	PHE	2.8
1	A	732	GLN	2.8
1	F	678	PRO	2.8
1	G	788	SER	2.8

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Mol	Chain	Res	Type	RSRZ
1	C	798	TRP	2.8
1	B	421	PRO	2.8
1	G	778	LYS	2.8
1	C	805	THR	2.8
1	A	481	TRP	2.7
1	D	814	GLU	2.7
1	G	457	GLU	2.7
1	H	814	GLU	2.7
1	E	773	CYS	2.7
1	E	812	ASP	2.7
1	F	812	ASP	2.7
1	H	811	ALA	2.7
1	F	775	GLU	2.7
1	A	814	GLU	2.7
1	G	756	ILE	2.7
1	G	814	GLU	2.7
1	F	674	HIS	2.7
1	C	764	LYS	2.7
1	B	674	HIS	2.7
1	G	591	ASN	2.7
1	H	539	GLY	2.6
1	C	749	GLU	2.6
1	C	794	LEU	2.6
1	C	761	SER	2.6
1	C	829	ASP	2.6
1	D	457	GLU	2.6
1	C	792	ASN	2.6
1	C	855	PHE	2.6
1	G	853	LEU	2.6
1	H	775	GLU	2.6
1	A	537	THR	2.6
1	B	678	PRO	2.6
1	E	829	ASP	2.6
1	C	758	LYS	2.6
1	E	534	ILE	2.6
1	C	459	THR	2.6
1	D	537	THR	2.6
1	G	683	THR	2.6
1	H	816	LEU	2.5
1	C	875	PRO	2.5
1	G	798	TRP	2.5
1	C	866	ILE	2.5

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Mol	Chain	Res	Type	RSRZ
1	G	751	GLU	2.5
1	C	789	ASP	2.5
1	G	851	GLN	2.5
1	G	773	CYS	2.5
1	A	457	GLU	2.5
1	G	456	ASP	2.5
1	E	774	LEU	2.5
1	G	589	GLN	2.5
1	G	673	TRP	2.5
1	C	851	GLN	2.5
1	F	677	LYS	2.5
1	F	585	LEU	2.5
1	G	834	TYR	2.5
1	G	479	ARG	2.5
1	F	421	PRO	2.4
1	A	589	GLN	2.4
1	D	848	THR	2.4
1	C	590	LEU	2.4
1	C	846	GLY	2.4
1	E	683	THR	2.4
1	E	848	THR	2.4
1	G	871	LYS	2.4
1	G	508	ILE	2.4
1	A	829	ASP	2.4
1	G	770	TYR	2.4
1	B	812	ASP	2.4
1	D	873	ARG	2.4
1	B	814	GLU	2.4
1	D	816	LEU	2.4
1	C	834	TYR	2.4
1	A	683	THR	2.4
1	G	748	ILE	2.4
1	H	817	GLN	2.4
1	C	807	LYS	2.3
1	E	870	MET	2.3
1	H	683	THR	2.3
1	F	457	GLU	2.3
1	D	589	GLN	2.3
1	G	803	LEU	2.3
1	A	815	TYR	2.3
1	C	793	PHE	2.3
1	F	817	GLN	2.3

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Mol	Chain	Res	Type	RSRZ
1	C	803	LEU	2.3
1	A	812	ASP	2.3
1	E	817	GLN	2.3
1	B	458	VAL	2.3
1	A	828	MET	2.3
1	G	807	LYS	2.3
1	B	585	LEU	2.3
1	E	475	SER	2.3
1	C	777	TYR	2.3
1	G	865	ASN	2.3
1	G	769	PHE	2.3
1	G	844	MET	2.3
1	A	808	PRO	2.3
1	B	582	LEU	2.3
1	C	533	GLY	2.2
1	D	871	LYS	2.2
1	F	849	ALA	2.2
1	A	747	TYR	2.2
1	A	845	ILE	2.2
1	C	871	LYS	2.2
1	H	871	LYS	2.2
1	A	761	SER	2.2
1	G	592	ALA	2.2
1	G	760	ALA	2.2
1	G	864	GLY	2.2
1	G	806	LEU	2.2
1	H	505	LEU	2.2
1	A	504	SER	2.2
1	B	420	GLU	2.2
1	H	848	THR	2.2
1	C	766	PHE	2.2
1	C	852	PHE	2.2
1	G	868	GLY	2.2
1	A	506	TRP	2.2
1	C	769	PHE	2.2
1	A	508	ILE	2.1
1	G	767	ILE	2.1
1	A	505	LEU	2.1
1	A	673	TRP	2.1
1	H	731	SER	2.1
1	E	588	ARG	2.1
1	C	748	ILE	2.1

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Mol	Chain	Res	Type	RSRZ
1	G	854	THR	2.1
1	H	422	ASP	2.1
1	F	851	GLN	2.1
1	B	746	ALA	2.1
1	E	832	GLU	2.1
1	H	776	GLU	2.1
1	A	777	TYR	2.1
1	C	588	ARG	2.1
1	F	588	ARG	2.1
1	B	681	VAL	2.1
1	B	457	GLU	2.1
1	G	753	ILE	2.1
1	D	625	ARG	2.1
1	G	571	ARG	2.1
1	D	812	ASP	2.1
1	A	775	GLU	2.1
1	E	844	MET	2.1
1	E	873	ARG	2.1
1	G	795	LYS	2.1
1	C	773	CYS	2.1
1	C	799	SER	2.1
1	G	774	LEU	2.1
1	G	812	ASP	2.1
1	A	855	PHE	2.1
1	E	476	VAL	2.1
1	G	731	SER	2.1
1	G	850	GLN	2.1
1	G	804	PRO	2.1
1	F	815	TYR	2.0
1	G	757	VAL	2.0
1	E	849	ALA	2.0
1	A	477	GLY	2.0
1	B	848	THR	2.0
1	C	869	SER	2.0
1	A	460	VAL	2.0
1	A	476	VAL	2.0
1	A	588	ARG	2.0
1	E	855	PHE	2.0
1	G	759	THR	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 carbohydrates 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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. 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	LLDF	B-factors(Å ²)	Q<0.9
4	EDO	D	906	4/4	0.94	0.29	10.57	40,40,41,42	0
4	EDO	A	907	4/4	0.94	0.22	6.14	45,46,46,50	0
4	EDO	D	905	4/4	0.91	0.19	4.86	36,38,40,41	0
4	EDO	F	903	4/4	0.89	0.21	4.65	40,42,42,43	0
2	B3P	E	901	19/19	0.78	0.24	3.61	38,44,47,50	19
4	EDO	C	903	4/4	0.90	0.26	3.46	43,43,44,44	0
4	EDO	A	903	4/4	0.90	0.27	3.37	42,43,46,49	0
4	EDO	B	905	4/4	0.95	0.20	3.30	43,44,45,47	0
4	EDO	F	902	4/4	0.81	0.20	2.88	39,39,41,42	0
2	B3P	C	901	19/19	0.85	0.24	2.73	42,44,48,49	0
4	EDO	G	901	4/4	0.92	0.15	2.65	38,41,41,43	0
2	B3P	A	901	19/19	0.69	0.31	2.53	42,46,48,48	19
2	B3P	D	901	19/19	0.80	0.27	1.86	44,46,49,50	0
4	EDO	A	904	4/4	0.87	0.16	1.73	45,45,46,46	0
4	EDO	B	902	4/4	0.93	0.14	1.37	33,38,38,42	0
2	B3P	F	901	19/19	0.89	0.20	1.15	39,43,45,48	0
2	B3P	H	901	19/19	0.90	0.15	1.12	36,40,42,46	0
4	EDO	F	904	4/4	0.93	0.13	0.83	33,34,35,36	0
2	B3P	B	901	19/19	0.89	0.15	0.55	37,40,45,45	0
4	EDO	D	904	4/4	0.97	0.12	0.31	30,31,32,32	0
4	EDO	B	903	4/4	0.96	0.12	0.28	30,32,34,34	0
4	EDO	D	902	4/4	0.95	0.11	0.18	42,42,44,47	0
4	EDO	F	905	4/4	0.90	0.14	-0.13	43,44,44,47	0
4	EDO	A	905	4/4	0.95	0.11	-0.18	39,39,41,41	0
4	EDO	H	902	4/4	0.98	0.11	-0.32	31,32,33,33	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
4	EDO	D	903	4/4	0.93	0.11	-0.34	44,44,45,46	0
4	EDO	B	904	4/4	0.91	0.11	-0.58	40,40,42,42	0
3	NO3	A	902	4/4	0.93	0.15	-1.20	35,40,41,42	0
3	NO3	C	902	4/4	0.95	0.12	-1.25	35,38,39,43	0
4	EDO	A	906	4/4	0.88	0.14	-	38,41,42,43	0

6.5 Other polymers [i](#)

There are no such residues in this entry.