



Full wwPDB X-ray Structure Validation Report

Feb 28, 2014 – 12:51 PM GMT

PDB ID : 1L4Z
Title : X-RAY CRYSTAL STRUCTURE OF THE COMPLEX OF MICROPLAS-
MINOGEN WITH ALPHA DOMAIN OF STREPTOKINASE IN THE
PRESENCE CADMIUM IONS
Authors : Wakeham, N.; Terzyan, S.; Zhai, P.; Loy, J.A.; Tang, J.; Zhang, X.C.
Deposited on : 2002-03-06
Resolution : 2.80 Å(reported)

This is a full wwPDB 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/ValidationPDFNotes.html>

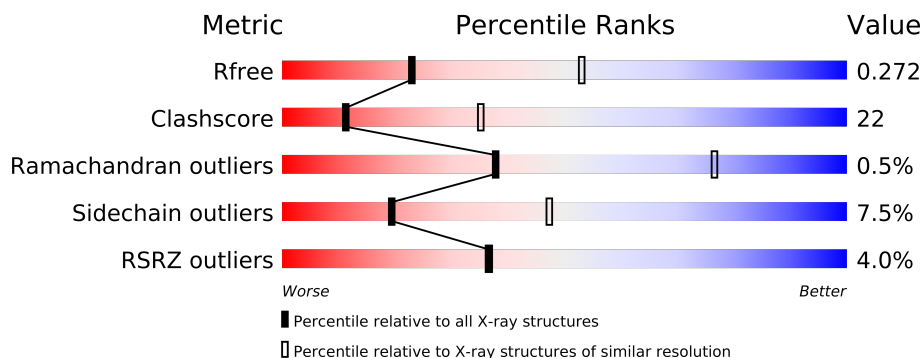
The following versions of software and data (see [references](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.15 2013
Xtriage (Phenix) : dev-1323
EDS : stable22639
Percentile statistics : 21963
Refmac : 5.8.0049
CCP4 : 6.3.0 (Settle)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)
Validation Pipeline (wwPDB-VP) : stable22683

1 Overall quality at a glance



The reported resolution of this entry is 2.80 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}	66092	1799 (2.80-2.80)
Clashscore	79885	2295 (2.80-2.80)
Ramachandran outliers	78287	2252 (2.80-2.80)
Sidechain outliers	78261	2254 (2.80-2.80)
RSRZ outliers	66119	1802 (2.80-2.80)

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. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density.

Mol	Chain	Length	Quality of chain
1	A	248	
2	B	136	

The following table lists non-polymeric compounds that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Geometry	Electron density
3	CD	B	202	-	X

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 2958 atoms, of which 0 are hydrogen and 0 are deuterium.

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 Plasminogen.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	248	1907	1211	337	345	14	2	0	0

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	741	ALA	SER	ENGINEERED	UNP P00747

- Molecule 2 is a protein called Streptokinase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	B	125	975	615	165	193	2	15	0	0

There are 14 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	0	MET	-	INITIATING MET	UNP P00779
B	6	ALA	TRP	ENGINEERED	UNP P00779
B	?	-	HIS	DELETION	UNP P00779
B	?	-	GLY	DELETION	UNP P00779
B	?	-	GLY	DELETION	UNP P00779
B	?	-	LYS	DELETION	UNP P00779
B	?	-	THR	DELETION	UNP P00779
B	?	-	GLU	DELETION	UNP P00779
B	?	-	GLN	DELETION	UNP P00779
B	?	-	GLY	DELETION	UNP P00779
B	?	-	LEU	DELETION	UNP P00779
B	?	-	SER	DELETION	UNP P00779
B	?	-	PRO	DELETION	UNP P00779
B	?	-	LYS	DELETION	UNP P00779

- Molecule 3 is CADMIUM ION (three-letter code: CD) (formula: Cd).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	B	2	Total	Cd	0	0
			2	2		
3	A	4	Total	Cd	0	0
			4	4		

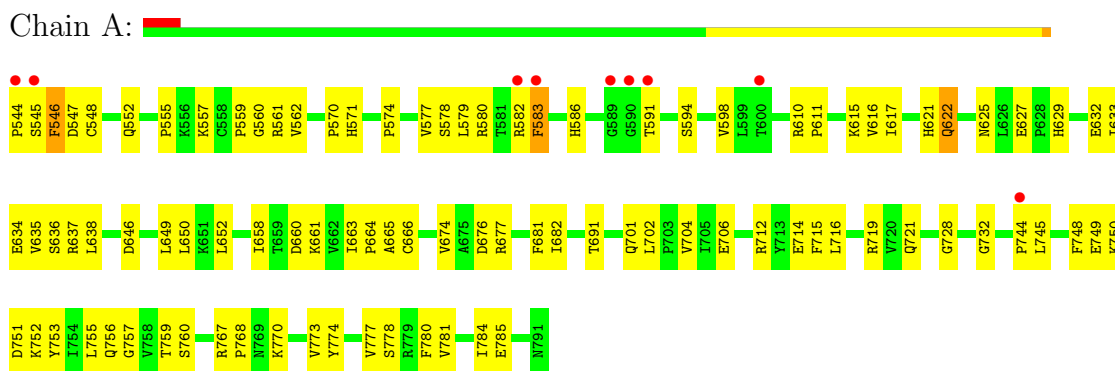
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	45	Total	O	0	0
			45	45		
4	B	25	Total	O	0	0
			25	25		

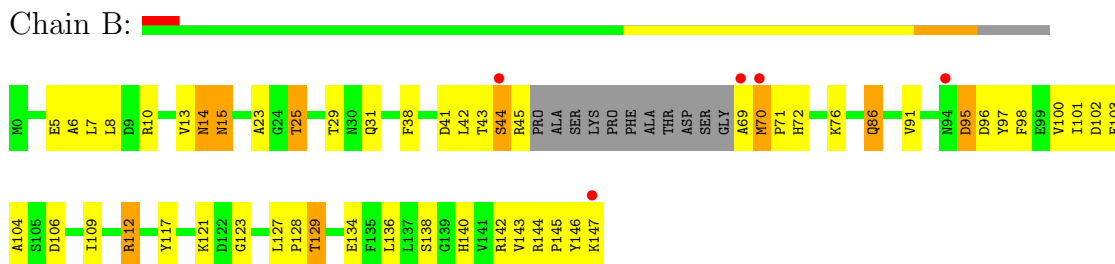
3 Residue-property plots

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors 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: Plasminogen



● Molecule 2: Streptokinase



4 Data and refinement statistics

Property	Value	Source
Space group	P 65 2 2	Depositor
Cell constants a, b, c, α , β , γ	118.40Å 118.40Å 134.90Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	25.00 – 2.80 24.72 – 2.60	Depositor EDS
% Data completeness (in resolution range)	97.5 (25.00-2.80) 96.6 (24.72-2.60)	Depositor EDS
R_{merge}	0.06	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	5.77 (at 2.60Å)	Xtriage
Refinement program	CNS	Depositor
R, R_{free}	0.220 , 0.262 0.235 , 0.272	Depositor DCC
R_{free} test set	967 reflections (7.43%)	DCC
Wilson B-factor (Å ²)	56.9	Xtriage
Anisotropy	0.318	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 33.8	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Outliers	1 of 17131 reflections (0.006%)	Xtriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	2958	wwPDB-VP
Average B, all atoms (Å ²)	51.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.01% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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

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	0.54	0/1958	0.76	0/2661
2	B	0.56	1/991 (0.1%)	0.74	0/1342
All	All	0.55	1/2949 (0.0%)	0.75	0/4003

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	5	GLU	CD-OE2	-5.98	1.19	1.25

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 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 hydrogens added by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, and the number in parentheses is this value normalized per 1000 atoms of the molecule in the chain. The Symm-Clashes column gives symmetry related clashes, in the same way as for the Clashes column.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1907	0	1884	71	0
2	B	975	0	967	57	0
3	A	4	0	0	0	0
3	B	2	0	0	0	0
4	A	45	0	0	5	0
4	B	25	0	0	4	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
All	All	2958	0	2851	127	0

Clashscore is defined as the number of clashes calculated for the entry per 1000 atoms (including hydrogens) of the entry. The overall clashscore for this entry is 22.

All (127) close contacts within the same asymmetric unit are listed below.

Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:B:45:ARG:HA	2:B:72:HIS:HB2	1.45	0.98
2:B:45:ARG:HB2	2:B:129:THR:HG23	1.47	0.95
1:A:580:ARG:HD3	1:A:617:ILE:HD13	1.50	0.90
1:A:755:LEU:CD2	1:A:777:VAL:HG21	2.05	0.87
2:B:45:ARG:CA	2:B:72:HIS:HB2	2.05	0.85
2:B:10:ARG:HD3	2:B:134:GLU:OE2	1.82	0.80
2:B:25:THR:HG21	4:B:207:HOH:O	1.85	0.75
1:A:580:ARG:HG2	1:A:586:HIS:HA	1.69	0.74
1:A:544:PRO:HA	1:A:547:ASP:OD1	1.88	0.74
2:B:8:LEU:HA	2:B:112:ARG:HH11	1.53	0.74
2:B:8:LEU:HA	2:B:112:ARG:NH1	2.03	0.73
1:A:755:LEU:HD22	1:A:777:VAL:HG21	1.71	0.73
1:A:615:LYS:HD3	1:A:632:GLU:OE1	1.88	0.72
2:B:45:ARG:HA	2:B:72:HIS:CB	2.19	0.72
1:A:591:THR:OG1	1:A:744:PRO:HB3	1.90	0.71
2:B:45:ARG:HD3	2:B:129:THR:OG1	1.91	0.71
2:B:43:THR:OG1	2:B:69:ALA:HB3	1.91	0.69
2:B:42:LEU:O	2:B:43:THR:HG23	1.93	0.67
2:B:42:LEU:HA	2:B:70:MET:O	1.96	0.65
1:A:666:CYS:SG	1:A:752:LYS:HD2	2.37	0.65
1:A:580:ARG:HD3	1:A:617:ILE:CD1	2.23	0.65
1:A:570:PRO:HA	1:A:621:HIS:CD2	2.32	0.64
2:B:72:HIS:CE1	2:B:129:THR:HA	2.31	0.64
2:B:43:THR:O	2:B:44:SER:HB2	1.98	0.64
2:B:44:SER:O	2:B:45:ARG:HB2	1.96	0.63
1:A:578:SER:HB3	1:A:617:ILE:HB	1.79	0.63
1:A:760:SER:HB3	1:A:773:VAL:O	1.98	0.63
2:B:98:PHE:CE1	2:B:145:PRO:HG3	2.35	0.62
1:A:748:PHE:HB2	1:A:753:TYR:CE1	2.34	0.62
2:B:91:VAL:HG21	2:B:97:TYR:CD1	2.35	0.62
1:A:580:ARG:CD	1:A:617:ILE:HD13	2.26	0.61
2:B:7:LEU:HD22	2:B:7:LEU:H	1.66	0.61
1:A:577:VAL:HG13	1:A:616:VAL:HG13	1.83	0.60
2:B:13:VAL:HG12	2:B:14:ASN:H	1.67	0.60
2:B:98:PHE:HE1	2:B:145:PRO:HG3	1.66	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:B:13:VAL:HG12	2:B:14:ASN:N	2.20	0.57
1:A:676:ASP:O	1:A:677:ARG:HB2	2.05	0.57
1:A:545:SER:O	1:A:546:PHE:HB2	2.05	0.56
1:A:748:PHE:CZ	1:A:751:ASP:HA	2.41	0.56
2:B:101:ILE:HG12	2:B:144:ARG:NH1	2.21	0.56
2:B:8:LEU:HD23	2:B:8:LEU:H	1.72	0.55
1:A:633:ILE:HG21	1:A:652:LEU:HB3	1.89	0.55
1:A:582:ARG:HG3	1:A:583:PHE:N	2.22	0.55
1:A:627:GLU:OE1	1:A:629:HIS:CE1	2.60	0.54
2:B:100:VAL:HA	2:B:143:VAL:HG12	1.90	0.54
2:B:45:ARG:N	2:B:72:HIS:HB2	2.22	0.54
2:B:44:SER:O	2:B:45:ARG:CB	2.56	0.54
1:A:546:PHE:CE1	1:A:552:GLN:HG3	2.42	0.54
1:A:757:GLY:HA2	1:A:777:VAL:HG23	1.88	0.53
2:B:45:ARG:HB2	2:B:129:THR:CG2	2.30	0.53
1:A:780:PHE:O	1:A:784:ILE:HG13	2.08	0.53
1:A:610:ARG:HH11	1:A:610:ARG:HG3	1.73	0.52
2:B:97:TYR:HA	4:B:208:HOH:O	2.10	0.52
2:B:13:VAL:HG12	2:B:15:ASN:H	1.75	0.51
1:A:627:GLU:HG3	4:A:47:HOH:O	2.09	0.51
2:B:102:ASP:OD1	2:B:103:PHE:N	2.44	0.51
2:B:101:ILE:O	2:B:102:ASP:HB2	2.11	0.51
2:B:104:ALA:C	2:B:106:ASP:H	2.14	0.50
1:A:616:VAL:C	1:A:617:ILE:HD12	2.33	0.50
1:A:555:PRO:O	1:A:557:LYS:HG3	2.12	0.49
1:A:622:GLN:HB3	1:A:625:ASN:O	2.13	0.49
2:B:44:SER:HB3	2:B:71:PRO:HB3	1.94	0.49
1:A:781:VAL:O	1:A:785:GLU:HG2	2.12	0.49
1:A:634:GLU:HG2	1:A:635:VAL:N	2.28	0.49
1:A:561:ARG:HD3	1:A:732:GLY:O	2.13	0.48
1:A:715:PHE:O	1:A:770:LYS:HE3	2.14	0.48
1:A:745:LEU:C	1:A:745:LEU:HD23	2.33	0.48
2:B:7:LEU:HD23	4:B:216:HOH:O	2.13	0.48
1:A:629:HIS:NE2	1:A:661:LYS:HD3	2.29	0.48
1:A:649:LEU:HD11	1:A:784:ILE:HG23	1.95	0.48
1:A:774:TYR:N	1:A:774:TYR:CD1	2.80	0.48
2:B:72:HIS:ND1	2:B:129:THR:HA	2.29	0.47
1:A:598:VAL:HB	1:A:650:LEU:HB2	1.97	0.47
1:A:755:LEU:HD21	1:A:777:VAL:HG21	1.93	0.47
2:B:101:ILE:HG12	2:B:144:ARG:HH12	1.79	0.47
1:A:629:HIS:CD2	1:A:661:LYS:HD3	2.49	0.47
1:A:559:PRO:HG2	1:A:562:VAL:CG2	2.44	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:B:45:ARG:CB	2:B:129:THR:HG23	2.32	0.46
2:B:104:ALA:C	2:B:106:ASP:N	2.67	0.46
1:A:574:PRO:HG3	4:A:80:HOH:O	2.16	0.46
2:B:72:HIS:ND1	2:B:128:PRO:O	2.46	0.46
1:A:702:LEU:HD22	1:A:728:GLY:HA2	1.98	0.45
1:A:615:LYS:HD2	1:A:617:ILE:HD11	1.98	0.45
1:A:681:PHE:CE1	1:A:701:GLN:HB2	2.52	0.45
1:A:559:PRO:HG2	1:A:562:VAL:HG21	1.99	0.45
1:A:759:THR:HA	1:A:774:TYR:CD2	2.52	0.45
2:B:15:ASN:HA	2:B:15:ASN:HD22	1.63	0.44
2:B:7:LEU:HD21	2:B:136:LEU:HB2	2.00	0.44
2:B:91:VAL:HG21	2:B:97:TYR:HD1	1.80	0.44
2:B:121:LYS:C	2:B:123:GLY:H	2.21	0.44
1:A:756:GLN:HA	1:A:756:GLN:OE1	2.17	0.44
2:B:72:HIS:HB3	2:B:127:LEU:O	2.18	0.43
2:B:95:ASP:OD1	2:B:95:ASP:N	2.51	0.43
2:B:23:ALA:O	2:B:140:HIS:HA	2.18	0.43
1:A:546:PHE:HE1	1:A:552:GLN:HG3	1.82	0.43
1:A:570:PRO:HA	1:A:621:HIS:HD2	1.80	0.43
2:B:109:ILE:HA	2:B:136:LEU:O	2.19	0.43
1:A:716:LEU:HD23	1:A:716:LEU:HA	1.67	0.43
1:A:767:ARG:HB3	1:A:768:PRO:CD	2.49	0.42
1:A:610:ARG:NH1	1:A:610:ARG:HG3	2.33	0.42
1:A:611:PRO:HB3	1:A:638:LEU:HG	2.01	0.42
2:B:38:PHE:CD1	2:B:86:GLN:HG2	2.54	0.42
1:A:611:PRO:HG3	1:A:636:SER:O	2.20	0.42
1:A:682:ILE:O	1:A:682:ILE:HG13	2.19	0.42
2:B:70:MET:HA	2:B:71:PRO:HD3	1.85	0.42
1:A:571:HIS:CD2	1:A:661:LYS:HE3	2.55	0.42
2:B:45:ARG:O	2:B:45:ARG:HG2	2.19	0.42
1:A:574:PRO:HB2	1:A:663:ILE:H	1.85	0.42
1:A:712:ARG:HD2	4:A:70:HOH:O	2.19	0.42
1:A:646:ASP:HB2	4:A:12:HOH:O	2.20	0.41
2:B:29:THR:OG1	2:B:31:GLN:HG2	2.20	0.41
2:B:45:ARG:HD3	2:B:129:THR:CG2	2.51	0.41
1:A:658:ILE:HD12	1:A:664:PRO:HD3	2.03	0.41
1:A:691:THR:HG23	2:B:117:TYR:O	2.21	0.41
1:A:611:PRO:CG	1:A:636:SER:O	2.69	0.41
2:B:76:LYS:HE2	2:B:102:ASP:OD1	2.21	0.41
1:A:560:GLY:O	1:A:561:ARG:HB2	2.21	0.41
1:A:719:ARG:HD3	4:A:52:HOH:O	2.21	0.41
1:A:548:CYS:HB2	1:A:665:ALA:C	2.41	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:571:HIS:CG	1:A:661:LYS:HG2	2.56	0.41
1:A:674:VAL:HG21	1:A:756:GLN:HG3	2.03	0.41
1:A:778:SER:HA	1:A:781:VAL:HG23	2.03	0.40
2:B:142:ARG:HD3	4:B:209:HOH:O	2.20	0.40
1:A:676:ASP:HB2	1:A:706:GLU:HB2	2.03	0.40
1:A:616:VAL:O	1:A:617:ILE:HD12	2.22	0.40
2:B:6:ALA:HB1	2:B:8:LEU:CD2	2.52	0.40
2:B:101:ILE:HD11	2:B:144:ARG:HB3	2.03	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	246/248 (99%)	225 (92%)	20 (8%)	1 (0%)	43	80
2	B	121/136 (89%)	111 (92%)	9 (7%)	1 (1%)	27	65
All	All	367/384 (96%)	336 (92%)	29 (8%)	2 (0%)	38	76

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	B	44	SER
1	A	546	PHE

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.

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	209/209 (100%)	198 (95%)	11 (5%)	32 67
2	B	109/117 (93%)	96 (88%)	13 (12%)	8 22
All	All	318/326 (98%)	294 (92%)	24 (8%)	19 47

All (24) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	579	LEU
1	A	583	PHE
1	A	594	SER
1	A	622	GLN
1	A	637	ARG
1	A	660	ASP
1	A	704	VAL
1	A	714	GLU
1	A	721	GLN
1	A	749	GLU
1	A	750	LYS
2	B	14	ASN
2	B	15	ASN
2	B	25	THR
2	B	41	ASP
2	B	70	MET
2	B	86	GLN
2	B	95	ASP
2	B	96	ASP
2	B	112	ARG
2	B	129	THR
2	B	138	SER
2	B	146	TYR
2	B	147	LYS

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	603	HIS
1	A	701	GLN
1	A	729	HIS

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Mol	Chain	Res	Type
1	A	790	ASN
2	B	15	ASN
2	B	86	GLN
2	B	90	ASN

5.3.3 RNA ⓘ

There are no RNA chains 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 ⓘ

Of 6 ligands modelled in this entry, 6 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å ²)	Q<0.9
1	A	248/248 (100%)	-0.00	9 (3%)	41	41	34, 47, 70, 79	12 (4%)
2	B	125/136 (91%)	0.05	5 (4%)	36	37	37, 53, 72, 89	10 (8%)
All	All	373/384 (97%)	0.02	14 (3%)	36	38	34, 49, 72, 89	22 (5%)

All (14) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	B	69	ALA	5.3
2	B	44	SER	4.0
1	A	545	SER	3.5
2	B	70	MET	3.2
1	A	591	THR	3.1
1	A	590	GLY	3.0
2	B	94	ASN	3.0
2	B	147	LYS	2.9
1	A	582	ARG	2.8
1	A	600	THR	2.7
1	A	744	PRO	2.4
1	A	589	GLY	2.4
1	A	583	PHE	2.3
1	A	544	PRO	2.0

6.2 Non-standard residues in protein, DNA, RNA chains ⓘ

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

6.3 Carbohydrates ⓘ

There are no carbohydrates in this entry.

6.4 Ligands ⓘ

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	RSR	LLDF	B-factors(Å ²)	Q<0.9
3	CD	B	202	1/1	0.85	10.84	62,62,62,62	0
3	CD	A	106	1/1	0.09	-3.20	68,68,68,68	1
3	CD	A	105	1/1	0.05	-3.57	74,74,74,74	1
3	CD	A	103	1/1	0.03	-3.82	74,74,74,74	1
3	CD	A	104	1/1	0.03	-4.78	76,76,76,76	0
3	CD	B	201	1/1	0.06	-52.00	49,49,49,49	0

6.5 Other polymers ⓘ

There are no such residues in this entry.