



Full wwPDB X-ray Structure Validation Report

Feb 28, 2014 – 04:48 PM GMT

PDB ID : 4EGT
Title : Crystal structure of major capsid protein P domain from rabbit hemorrhagic disease virus
Authors : Wang, X.; Xu, F.; Zhang, K.; Zhai, Y.; Sun, F.
Deposited on : 2012-04-01
Resolution : 2.00 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>

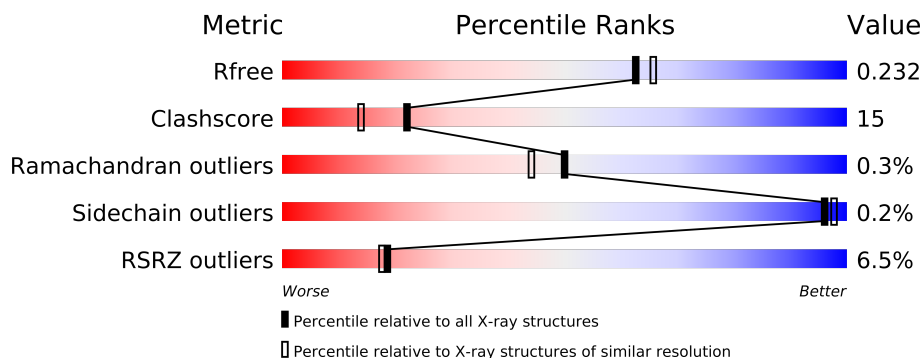
The following versions of software and data (see [references](#)) were used in the production of this report:

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 2.00 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	4888 (2.00-2.00)
Clashscore	79885	6188 (2.00-2.00)
Ramachandran outliers	78287	6102 (2.00-2.00)
Sidechain outliers	78261	6100 (2.00-2.00)
RSRZ outliers	66119	4890 (2.00-2.00)

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	357	
1	B	357	

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 5062 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 Major capsid protein VP60.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	326	Total	C	N	O	S	0	0	0
			2422	1537	411	468	6			
1	B	331	Total	C	N	O	S	0	0	0
			2448	1550	417	475	6			

There are 14 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	223	GLY	-	EXPRESSION TAG	UNP Q3HNQ1
A	224	PRO	-	EXPRESSION TAG	UNP Q3HNQ1
A	225	LEU	-	EXPRESSION TAG	UNP Q3HNQ1
A	226	GLY	-	EXPRESSION TAG	UNP Q3HNQ1
A	227	SER	-	EXPRESSION TAG	UNP Q3HNQ1
A	263	ARG	GLY	SEE REMARK 999	UNP Q3HNQ1
A	539	GLU	GLY	SEE REMARK 999	UNP Q3HNQ1
B	223	GLY	-	EXPRESSION TAG	UNP Q3HNQ1
B	224	PRO	-	EXPRESSION TAG	UNP Q3HNQ1
B	225	LEU	-	EXPRESSION TAG	UNP Q3HNQ1
B	226	GLY	-	EXPRESSION TAG	UNP Q3HNQ1
B	227	SER	-	EXPRESSION TAG	UNP Q3HNQ1
B	263	ARG	GLY	SEE REMARK 999	UNP Q3HNQ1
B	539	GLU	GLY	SEE REMARK 999	UNP Q3HNQ1

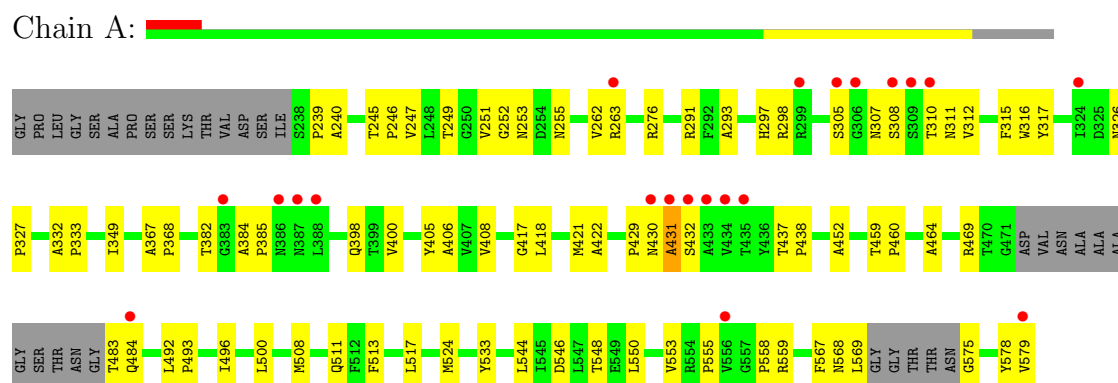
- Molecule 2 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	87	Total	O	0	0
			87	87		
2	B	105	Total	O	0	0
			105	105		

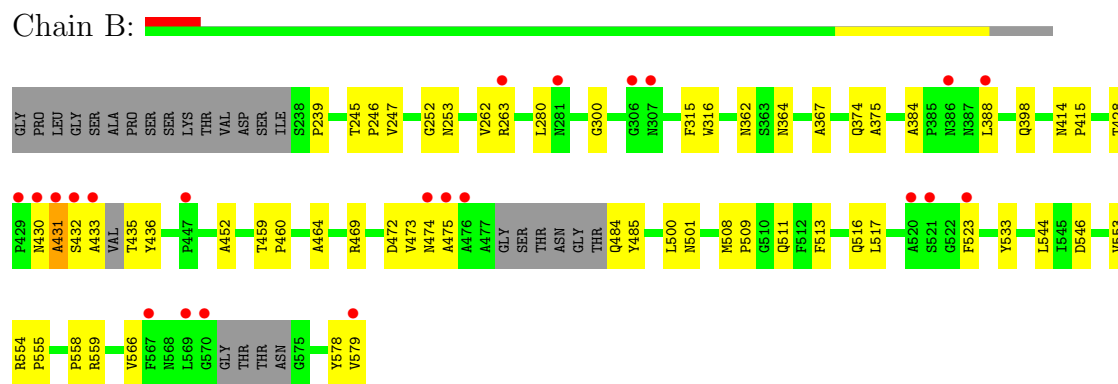
3 Residue-property plots

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: Major capsid protein VP60



- Molecule 1: Major capsid protein VP60



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	43.93Å 88.14Å 135.60Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	36.95 – 2.00 36.95 – 2.00	Depositor EDS
% Data completeness (in resolution range)	98.8 (36.95-2.00) 98.8 (36.95-2.00)	Depositor EDS
R_{merge}	0.09	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	11.61 (at 2.00Å)	Xtriage
Refinement program	REFMAC 5.5.0072	Depositor
R, R_{free}	0.199 , 0.232 0.201 , 0.232	Depositor DCC
R_{free} test set	1789 reflections (5.27%)	DCC
Wilson B-factor (Å ²)	25.2	Xtriage
Anisotropy	0.077	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.40 , 40.1	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.34$	Xtriage
Outliers	0 of 35714 reflections	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	5062	wwPDB-VP
Average B, all atoms (Å ²)	22.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.39% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

5 Model quality

5.1 Standard geometry

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	0.44	0/2491	0.60	0/3420
1	B	0.46	0/2516	0.60	0/3452
All	All	0.45	0/5007	0.60	0/6872

There are no bond length outliers.

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	2422	0	2328	76	2
1	B	2448	0	2341	70	1
2	A	87	0	0	5	1
2	B	105	0	0	3	0
All	All	5062	0	4669	143	2

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 15.

All (143) close contacts within the same asymmetric unit are listed below.

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:433:ALA:HA	1:B:435:THR:N	1.73	1.03

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:A:685:HOH:O	1:B:253:ASN:HB3	1.57	1.01
1:B:384:ALA:H	1:B:398:GLN:HE22	1.09	0.98
1:B:578:TYR:O	1:B:579:VAL:HG12	1.63	0.95
1:B:508:MET:HG3	1:B:509:PRO:HD2	1.49	0.95
1:A:469:ARG:HD3	1:A:484:GLN:HB3	1.50	0.93
1:B:262:VAL:HG23	1:B:263:ARG:HG2	1.50	0.91
1:B:263:ARG:HD3	1:B:546:ASP:HA	1.52	0.90
1:A:263:ARG:HD3	1:A:546:ASP:HA	1.57	0.86
1:A:262:VAL:HG23	1:A:263:ARG:HG2	1.58	0.84
1:A:263:ARG:HB2	1:A:544:LEU:HD11	1.59	0.84
1:B:263:ARG:CD	1:B:546:ASP:HA	2.12	0.80
1:B:508:MET:HG3	1:B:509:PRO:CD	2.12	0.79
1:A:384:ALA:H	1:A:398:GLN:HE22	1.28	0.79
1:B:578:TYR:O	1:B:579:VAL:CG1	2.31	0.78
1:B:263:ARG:HG3	1:B:544:LEU:HD21	1.66	0.78
1:A:469:ARG:HD3	1:A:484:GLN:CB	2.14	0.77
1:A:567:PHE:CE1	2:A:684:HOH:O	2.37	0.77
1:B:263:ARG:HB2	1:B:544:LEU:HD11	1.67	0.76
1:A:469:ARG:CD	1:A:484:GLN:HB3	2.16	0.76
1:A:310:THR:HG22	1:A:408:VAL:O	1.86	0.75
1:A:469:ARG:HD3	1:A:484:GLN:CG	2.17	0.74
1:B:433:ALA:CA	1:B:435:THR:N	2.51	0.73
1:B:517:LEU:HD22	1:B:553:VAL:HG22	1.71	0.71
1:B:474:ASN:OD1	1:B:474:ASN:C	2.30	0.70
1:A:578:TYR:O	1:A:579:VAL:HB	1.91	0.69
1:B:473:VAL:O	1:B:474:ASN:CG	2.30	0.69
1:B:469:ARG:HH21	1:B:484:GLN:HA	1.57	0.69
1:B:428:THR:CG2	1:B:469:ARG:HD3	2.23	0.69
1:A:247:VAL:O	1:A:252:GLY:HA3	1.94	0.67
1:A:469:ARG:HD3	1:A:484:GLN:HG2	1.75	0.67
1:A:430:ASN:O	1:A:431:ALA:HB3	1.94	0.67
1:A:524:MET:HB3	1:A:569:LEU:HD11	1.78	0.66
1:B:262:VAL:C	1:B:263:ARG:HG2	2.17	0.65
1:B:384:ALA:H	1:B:398:GLN:NE2	1.88	0.64
1:A:293:ALA:O	1:A:422:ALA:HB2	1.99	0.62
1:A:263:ARG:CD	1:A:546:ASP:HA	2.27	0.62
1:A:558:PRO:O	1:A:559:ARG:NE	2.30	0.62
1:B:459:THR:HG23	1:B:460:PRO:HD2	1.81	0.62
1:B:428:THR:HG21	1:B:469:ARG:HD3	1.83	0.61
1:A:262:VAL:C	1:A:263:ARG:HG2	2.20	0.60
1:A:517:LEU:HD22	1:A:553:VAL:HG22	1.83	0.60
1:B:472:ASP:OD1	1:B:475:ALA:HB2	2.02	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:308:SER:O	1:A:312:VAL:HG11	2.03	0.59
1:B:263:ARG:CG	1:B:544:LEU:HD21	2.33	0.58
1:A:578:TYR:O	1:A:579:VAL:CB	2.51	0.58
1:A:311:ASN:HA	1:A:406:ALA:HB1	1.85	0.58
1:B:508:MET:O	1:B:511:GLN:HB2	2.03	0.58
1:A:239:PRO:HG2	1:A:513:PHE:CD2	2.39	0.57
1:A:567:PHE:CD1	2:A:684:HOH:O	2.56	0.57
1:B:384:ALA:N	1:B:398:GLN:HE22	1.92	0.57
1:A:469:ARG:NH1	1:A:484:GLN:H	2.03	0.56
1:B:578:TYR:C	1:B:579:VAL:HG12	2.25	0.56
1:B:428:THR:HG22	1:B:469:ARG:CG	2.36	0.56
1:A:291:ARG:HD2	2:A:687:HOH:O	2.05	0.56
1:B:435:THR:HG22	1:B:436:TYR:N	2.21	0.55
1:A:262:VAL:O	1:A:263:ARG:HD3	2.07	0.55
1:A:263:ARG:CB	1:A:544:LEU:HD11	2.33	0.55
1:A:568:ASN:C	1:A:569:LEU:HD12	2.27	0.55
1:B:263:ARG:CB	1:B:544:LEU:HD11	2.35	0.54
1:B:435:THR:CG2	1:B:436:TYR:H	2.20	0.54
1:B:263:ARG:NH1	1:B:485:TYR:OH	2.40	0.54
1:B:484:GLN:O	2:B:665:HOH:O	2.18	0.53
1:A:310:THR:CG2	1:A:408:VAL:O	2.56	0.53
1:A:459:THR:HG23	1:A:460:PRO:HD2	1.89	0.53
1:B:300:GLY:HA3	1:B:316:TRP:CZ2	2.43	0.53
1:A:569:LEU:HD12	1:A:569:LEU:N	2.24	0.53
1:A:307:ASN:OD1	1:A:308:SER:N	2.42	0.53
1:A:349:ILE:HG13	1:A:429:PRO:HG3	1.91	0.53
1:A:297:HIS:O	1:A:417:GLY:HA2	2.10	0.52
1:A:382:THR:HA	1:A:398:GLN:HE21	1.74	0.52
1:A:308:SER:O	1:A:312:VAL:CG1	2.57	0.52
1:A:305:SER:O	2:A:663:HOH:O	2.19	0.52
1:A:546:ASP:OD1	1:A:548:THR:HB	2.11	0.51
1:B:414:ASN:OD1	1:B:415:PRO:HA	2.10	0.51
1:B:435:THR:HG22	1:B:436:TYR:H	1.75	0.51
1:A:508:MET:O	1:A:511:GLN:HB2	2.10	0.51
1:A:431:ALA:O	1:A:432:SER:HB2	2.10	0.51
1:B:435:THR:CG2	1:B:436:TYR:N	2.75	0.50
1:B:473:VAL:O	1:B:474:ASN:OD1	2.30	0.50
1:A:245:THR:N	1:A:246:PRO:CD	2.75	0.50
1:B:428:THR:HG22	1:B:469:ARG:HG3	1.94	0.50
1:B:428:THR:CG2	1:B:469:ARG:CD	2.90	0.50
1:B:474:ASN:OD1	1:B:474:ASN:O	2.30	0.49
1:A:263:ARG:HB3	1:A:544:LEU:HG	1.94	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:492:LEU:N	1:A:493:PRO:CD	2.76	0.49
1:A:249:THR:HG23	1:A:550:LEU:HD23	1.94	0.49
1:B:315:PHE:CE1	1:B:388:LEU:HD11	2.48	0.48
1:B:300:GLY:HA3	1:B:316:TRP:CE2	2.47	0.48
1:A:315:PHE:CE1	1:A:400:VAL:HG13	2.49	0.48
1:B:469:ARG:NH2	1:B:484:GLN:HA	2.28	0.48
1:A:483:THR:O	1:A:483:THR:HG23	2.14	0.48
1:B:247:VAL:O	1:B:252:GLY:HA3	2.14	0.48
1:B:362:ASN:ND2	1:B:364:ASN:HB2	2.29	0.47
1:A:332:ALA:HB1	1:A:333:PRO:HD2	1.97	0.47
1:A:437:THR:CG2	1:A:438:PRO:HA	2.44	0.47
1:B:523:PHE:CE1	1:B:566:VAL:HG11	2.49	0.47
1:A:367:ALA:HB1	1:A:368:PRO:HD2	1.97	0.47
1:A:316:TRP:CE3	1:A:418:LEU:HD22	2.50	0.47
1:A:569:LEU:N	1:A:569:LEU:CD1	2.79	0.46
1:B:263:ARG:HB2	1:B:464:ALA:HB3	1.97	0.46
1:A:240:ALA:HB1	1:A:555:PRO:HB3	1.98	0.46
1:A:255:ASN:O	1:A:276:ARG:HD2	2.16	0.46
1:B:508:MET:CG	1:B:509:PRO:N	2.78	0.46
1:B:485:TYR:CE2	1:B:544:LEU:HD22	2.51	0.45
1:B:430:ASN:OD1	1:B:431:ALA:N	2.50	0.45
1:B:428:THR:HG21	1:B:469:ARG:CD	2.46	0.45
1:A:245:THR:HB	1:A:246:PRO:HD3	1.98	0.45
1:B:374:GLN:HG3	1:B:375:ALA:N	2.31	0.45
1:B:501:ASN:ND2	2:B:697:HOH:O	2.49	0.45
1:B:239:PRO:HG2	1:B:513:PHE:CD2	2.52	0.45
1:B:554:ARG:HB2	1:B:555:PRO:HD2	1.99	0.45
1:B:558:PRO:O	1:B:559:ARG:NH2	2.38	0.45
1:A:384:ALA:H	1:A:398:GLN:NE2	2.04	0.45
1:A:421:MET:HE2	1:A:421:MET:HA	1.99	0.45
1:A:253:ASN:OD1	1:A:253:ASN:N	2.48	0.44
1:B:263:ARG:HH11	1:B:544:LEU:HD23	1.82	0.44
1:A:384:ALA:HB3	1:A:398:GLN:OE1	2.17	0.44
1:B:262:VAL:HG23	1:B:263:ARG:CG	2.34	0.44
1:B:362:ASN:ND2	1:B:364:ASN:H	2.16	0.44
1:B:508:MET:HG3	1:B:509:PRO:N	2.33	0.44
1:A:452:ALA:HB2	1:A:533:TYR:CD2	2.53	0.43
1:A:251:VAL:HG11	1:B:500:LEU:HD21	2.00	0.43
1:A:317:TYR:HB2	1:A:400:VAL:HG22	2.00	0.43
1:A:263:ARG:HG3	1:A:544:LEU:HD21	2.01	0.43
1:A:496:ILE:O	1:A:500:LEU:HG	2.18	0.43
1:A:263:ARG:HB2	1:A:464:ALA:HB3	2.00	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:459:THR:CG2	1:A:460:PRO:HD2	2.48	0.42
1:A:262:VAL:C	1:A:263:ARG:CG	2.88	0.42
1:A:262:VAL:O	1:A:263:ARG:CD	2.67	0.42
1:B:280:LEU:N	1:B:280:LEU:HD12	2.35	0.42
1:A:246:PRO:HG2	1:B:500:LEU:O	2.19	0.42
1:B:262:VAL:O	1:B:263:ARG:HD3	2.20	0.42
1:B:452:ALA:HB2	1:B:533:TYR:CG	2.55	0.42
1:B:475:ALA:N	2:B:703:HOH:O	2.37	0.41
1:A:298:ARG:HA	1:A:417:GLY:HA2	2.02	0.41
1:A:349:ILE:O	1:A:429:PRO:HG3	2.20	0.41
1:A:405:TYR:OH	1:B:367:ALA:HB2	2.20	0.41
1:A:326:ASN:HA	1:A:327:PRO:HD2	1.86	0.41
1:A:452:ALA:HB2	1:A:533:TYR:CG	2.56	0.41
1:B:245:THR:N	1:B:246:PRO:CD	2.84	0.41
1:A:384:ALA:HA	1:A:385:PRO:HA	1.77	0.40
1:B:428:THR:CG2	1:B:469:ARG:CG	3.00	0.40

All (2) 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	Distance(Å)	Clash(Å)
1:A:559:ARG:NH2	1:B:516:GLN:NE2[4_555]	2.17	0.03
1:A:575:GLY:N	2:A:680:HOH:O[1_655]	2.17	0.03

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	320/357 (90%)	313 (98%)	6 (2%)	1 (0%)	50	44
1	B	323/357 (90%)	317 (98%)	5 (2%)	1 (0%)	50	44
All	All	643/714 (90%)	630 (98%)	11 (2%)	2 (0%)	50	44

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	431	ALA
1	A	431	ALA

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	262/283 (93%)	262 (100%)	0	100	100
1	B	262/283 (93%)	261 (100%)	1 (0%)	95	97
All	All	524/566 (93%)	523 (100%)	1 (0%)	96	98

All (1) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	432	SER

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

Mol	Chain	Res	Type
1	A	364	ASN
1	A	398	GLN
1	B	265	GLN
1	B	362	ASN
1	B	365	ASN
1	B	398	GLN

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 ⓘ

There are no ligands in this entry.

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	326/357 (91%)	0.36	21 (6%) 19 18	14, 21, 37, 58	0
1	B	331/357 (92%)	0.35	22 (6%) 18 17	13, 20, 38, 55	0
All	All	657/714 (92%)	0.36	43 (6%) 18 18	13, 20, 38, 58	0

All (43) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	432	SER	7.9
1	B	570	GLY	7.8
1	A	431	ALA	6.5
1	A	434	VAL	6.2
1	B	569	LEU	5.2
1	A	433	ALA	4.8
1	B	476	ALA	4.6
1	A	579	VAL	4.5
1	A	309	SER	4.2
1	A	430	ASN	4.2
1	B	433	ALA	4.0
1	A	387	ASN	3.9
1	B	263	ARG	3.7
1	B	306	GLY	3.7
1	B	307	ASN	3.7
1	A	388	LEU	3.4
1	A	484	GLN	3.3
1	B	474	ASN	3.3
1	A	308	SER	3.2
1	A	386	ASN	3.1
1	B	579	VAL	3.0
1	B	567	PHE	2.7
1	A	310	THR	2.7
1	B	430	ASN	2.6

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Mol	Chain	Res	Type	RSRZ
1	A	263	ARG	2.6
1	B	520	ALA	2.5
1	A	299	ARG	2.5
1	A	306	GLY	2.4
1	B	432	SER	2.4
1	B	521	SER	2.4
1	B	431	ALA	2.4
1	B	447	PRO	2.2
1	B	523	PHE	2.2
1	B	386	ASN	2.2
1	B	388	LEU	2.2
1	B	475	ALA	2.2
1	B	429	PRO	2.2
1	A	305	SER	2.1
1	A	556	VAL	2.1
1	A	383	GLY	2.0
1	A	435	THR	2.0
1	B	281	ASN	2.0
1	A	324	ILE	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 ⓘ

There are no ligands in this entry.

6.5 Other polymers ⓘ

There are no such residues in this entry.