



Full wwPDB X-ray Structure Validation Report ⓘ

Apr 25, 2026 – 07:58 PM EDT

PDB ID : 3S7I / pdb_00003s7i
Title : Crystal structure of Ara h 1
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Deposited on : 2011-05-26
Resolution : 2.35 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
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

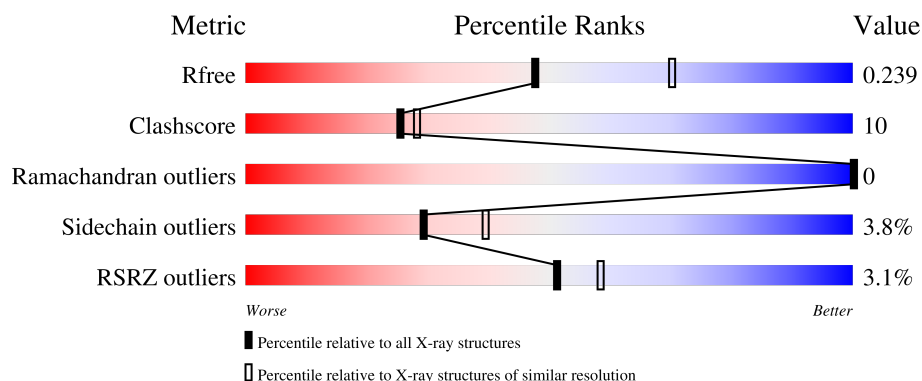
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.35 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	1596 (2.36-2.36)
Clashscore	190562	1663 (2.36-2.36)
Ramachandran outliers	187476	1646 (2.36-2.36)
Sidechain outliers	187428	1646 (2.36-2.36)
RSRZ outliers	180081	1598 (2.36-2.36)

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	418	 5% 69% 18% 12%
1	B	418	 5% 67% 18% 13%

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 5731 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 Allergen Ara h 1, clone P41B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	369	Total	C	N	O	S	0	1	0
			2898	1813	526	552	7			
1	B	363	Total	C	N	O	S	0	0	0
			2698	1696	480	515	7			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	169	MET	-	expression tag	UNP P43238
B	169	MET	-	expression tag	UNP P43238

- 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	1	Total	Cl	0	0
			1	1		

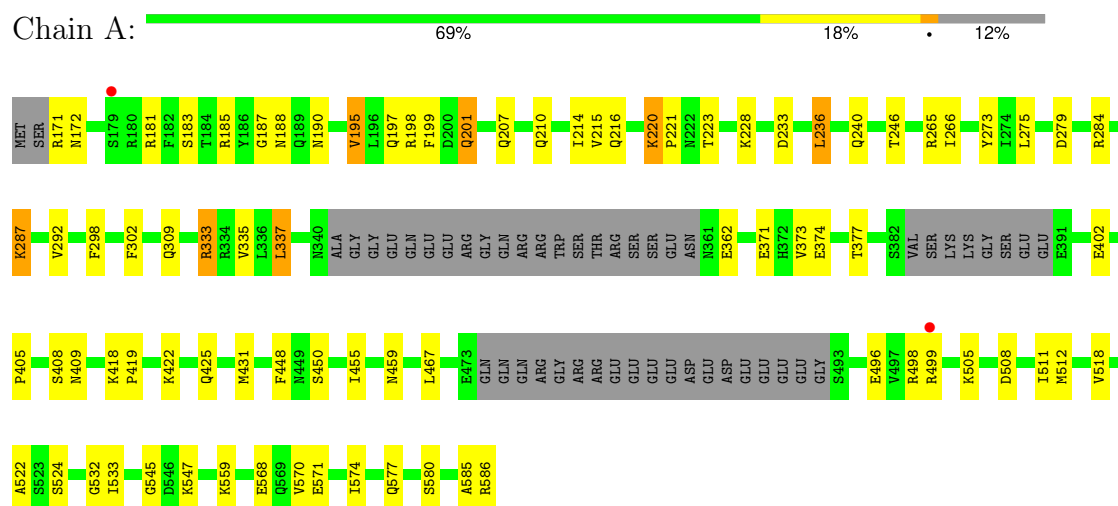
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	114	Total	O	0	0
			114	114		
3	B	19	Total	O	0	0
			19	19		

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: Allergen Ara h 1, clone P41B



4 Data and refinement statistics

Property	Value	Source
Space group	H 3	Depositor
Cell constants a, b, c, α , β , γ	92.89Å 92.89Å 231.55Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	40.13 – 2.35 40.13 – 2.35	Depositor EDS
% Data completeness (in resolution range)	86.5 (40.13-2.35) 99.9 (40.13-2.35)	Depositor EDS
R_{merge}	0.09	Depositor
R_{sym}	0.09	Depositor
$\langle I/\sigma(I) \rangle$ ¹	4.14 (at 2.34Å)	Xtriage
Refinement program	REFMAC 5.5.0109, CCP4	Depositor
R, R_{free}	0.203 , 0.244 0.219 , 0.239	Depositor DCC
R_{free} test set	1567 reflections (5.05%)	wwPDB-VP
Wilson B-factor (Å ²)	44.1	Xtriage
Anisotropy	0.889	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 47.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	0.008 for $-1/3^*h+1/3^*k+1/3^*l, -k, 8/3^*h+4/3^*k+1/3^*l$ 0.019 for $-2/3^*h-1/3^*k-1/3^*l, -1/3^*h-2/3^*k+1/3^*l, -4/3^*h+4/3^*k+1/3^*l$ 0.003 for $-h, 1/3^*h-1/3^*k-1/3^*l, -4/3^*h-8/3^*k+1/3^*l$ 0.007 for $-h, 2/3^*h+1/3^*k+1/3^*l, 4/3^*h+8/3^*k-1/3^*l$ 0.006 for $1/3^*h+2/3^*k-1/3^*l, -k, -8/3^*h-4/3^*k-1/3^*l$ 0.016 for $-1/3^*h-2/3^*k+1/3^*l, -2/3^*h-1/3^*k-1/3^*l, 4/3^*h-4/3^*k-1/3^*l$ 0.037 for $-h-k, k, -l$	Xtriage
Reported twinning fraction	0.948 for H, K, L 0.052 for K, H, -L	Depositor
Outliers	0 of 31041 reflections	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	5731	wwPDB-VP
Average B, all atoms (Å ²)	54.0	wwPDB-VP

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.

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.29% of the height of the origin peak. No significant pseudotranslation is detected.*

5 Model quality

5.1 Standard geometry

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

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	1.35	4/2947 (0.1%)	1.18	11/3980 (0.3%)
1	B	0.83	0/2746	0.97	8/3734 (0.2%)
All	All	1.13	4/5693 (0.1%)	1.08	19/7714 (0.2%)

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	266	ILE	CA-CB	-6.33	1.46	1.54
1	A	195	VAL	CA-C	-5.49	1.45	1.52
1	A	448	PHE	CA-C	-5.38	1.46	1.52
1	A	467	LEU	CG-CD2	-5.13	1.35	1.52

All (19) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	337	LEU	N-CA-C	8.76	120.91	111.36
1	A	279	ASP	N-CA-C	8.71	120.86	111.36
1	B	404	GLU	N-CA-C	-7.17	101.04	109.93
1	B	394	ILE	N-CA-C	-7.08	96.69	107.73
1	A	402	GLU	N-CA-C	7.01	118.57	111.07
1	A	190	ASN	N-CA-C	6.98	118.97	111.36
1	B	496	GLU	N-CA-C	6.40	119.58	108.76
1	A	292	VAL	CB-CA-C	-6.35	105.48	111.06
1	A	450	SER	N-CA-C	6.33	118.18	111.28
1	A	201	GLN	N-CA-C	-5.79	104.94	112.23
1	A	287	LYS	CA-C-N	-5.75	116.06	123.19
1	A	287	LYS	C-N-CA	-5.75	116.06	123.19
1	B	421	LYS	N-CA-C	-5.66	105.20	111.71
1	A	512	MET	CB-CA-C	-5.64	105.37	110.44
1	B	249	ASN	N-CA-CB	5.63	119.27	109.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	402	GLU	N-CA-C	5.63	117.42	111.28
1	B	201	GLN	N-CA-C	-5.20	105.68	112.23
1	B	512	MET	CB-CA-C	-5.18	105.78	110.44
1	A	335	VAL	N-CA-C	5.00	115.78	110.72

There are no chirality outliers.

There are no planarity outliers.

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	2898	0	2816	44	0
1	B	2698	0	2506	62	0
2	A	1	0	0	0	0
2	B	1	0	0	0	0
3	A	114	0	0	5	0
3	B	19	0	0	0	0
All	All	5731	0	5322	105	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 (105) 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:336:LEU:O	1:B:337:LEU:HB2	1.49	1.11
1:B:421:LYS:HE3	1:B:421:LYS:H	1.37	0.88
1:B:392:GLY:O	1:B:393:ASP:HB2	1.76	0.86
1:B:421:LYS:H	1:B:421:LYS:CE	1.91	0.83
1:B:207:GLN:O	1:B:210:GLN:HG2	1.84	0.78
1:B:336:LEU:O	1:B:337:LEU:CB	2.30	0.76
1:B:208:ASN:HB3	1:B:453:MET:HE1	1.69	0.75
1:B:368:VAL:HG12	1:B:372:HIS:HB2	1.71	0.71
1:B:399:ASN:O	1:B:402:GLU:HB3	1.90	0.71
1:A:333:ARG:HA	1:A:337:LEU:HB2	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:369:SER:HB2	1:B:372:HIS:ND1	2.11	0.65
1:A:199:PHE:CD1	1:A:511:ILE:HD11	2.30	0.65
1:B:263:ALA:HB2	1:B:400:LEU:HD21	1.79	0.64
1:B:431:MET:HG3	1:B:532:GLY:O	1.98	0.64
1:A:505:LYS:NZ	1:A:508:ASP:OD2	2.31	0.64
1:A:585:ALA:O	1:A:586:ARG:CB	2.47	0.63
1:A:197:GLN:HB3	3:A:51:HOH:O	1.97	0.63
1:B:199:PHE:CD1	1:B:511:ILE:HD11	2.34	0.63
1:B:421:LYS:HE3	1:B:421:LYS:N	2.12	0.62
1:B:399:ASN:HB3	1:B:402:GLU:HB2	1.81	0.61
1:A:498:ARG:NH1	1:A:499:ARG:O	2.33	0.61
1:A:431:MET:HG3	1:A:532:GLY:O	2.03	0.59
1:A:207:GLN:O	1:A:210:GLN:HG2	2.03	0.59
1:A:568:GLU:HG3	3:A:76:HOH:O	2.05	0.57
1:B:467:LEU:HD23	1:B:468:VAL:N	2.18	0.57
1:B:325:PHE:O	1:B:326:ASN:HB3	2.04	0.57
1:A:533:ILE:HD12	1:A:533:ILE:N	2.20	0.57
1:B:377:THR:HG22	1:B:377:THR:O	2.05	0.56
1:B:421:LYS:CE	1:B:421:LYS:N	2.65	0.56
1:A:185:ARG:NH1	1:A:298:PHE:O	2.36	0.55
1:B:261:GLY:O	1:B:400:LEU:HG	2.07	0.55
1:A:236:LEU:C	1:A:236:LEU:HD23	2.32	0.54
1:A:188:ASN:ND2	1:A:362:GLU:O	2.38	0.54
1:A:547:LYS:HB2	1:A:580:SER:OG	2.08	0.53
1:B:532:GLY:C	1:B:533:ILE:HD12	2.33	0.53
1:A:221:PRO:O	1:A:223:THR:HG23	2.09	0.53
1:A:171:ARG:N	1:B:183:SER:HG	2.07	0.53
1:B:421:LYS:H	1:B:421:LYS:HE2	1.73	0.52
1:A:187:GLY:O	1:A:188:ASN:HB3	2.10	0.52
1:A:198:ARG:HB2	1:A:201:GLN:HG3	1.90	0.52
1:B:331:GLU:O	1:B:335:VAL:HG23	2.09	0.52
1:B:399:ASN:HB3	1:B:402:GLU:CB	2.40	0.52
1:A:199:PHE:CE1	1:A:511:ILE:HD11	2.45	0.51
1:A:284:ARG:NH2	1:A:459:ASN:O	2.42	0.51
1:B:278:HIS:CD2	1:B:281:GLN:HB3	2.45	0.50
1:B:185:ARG:NH1	1:B:298:PHE:O	2.40	0.50
1:A:559:LYS:HE3	1:A:571:GLU:HG2	1.94	0.50
1:B:522:ALA:HB1	1:B:524:SER:O	2.12	0.50
1:B:390:GLU:HB2	1:B:395:THR:HA	1.94	0.49
1:B:548:ASP:OD1	1:B:581:HIS:NE2	2.45	0.49
1:B:246:THR:HG21	1:B:273:TYR:CZ	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:215:VAL:HB	1:A:287:LYS:HB2	1.94	0.49
1:B:467:LEU:HD23	1:B:467:LEU:C	2.38	0.49
1:B:533:ILE:HD12	1:B:533:ILE:N	2.27	0.48
1:A:559:LYS:HD2	1:A:570:VAL:HG11	1.96	0.48
1:A:233:ASP:CG	1:A:265:ARG:HH11	2.21	0.47
1:A:302:PHE:CD1	1:A:309:GLN:HG3	2.49	0.47
1:B:402:GLU:HG3	1:B:403:GLY:N	2.23	0.47
1:A:545:GLY:HA2	1:A:577:GLN:HG3	1.96	0.46
1:B:302:PHE:CD1	1:B:309:GLN:HG3	2.51	0.46
1:B:414:LEU:C	1:B:414:LEU:HD23	2.40	0.46
1:B:368:VAL:CG1	1:B:372:HIS:CB	2.94	0.46
1:A:220:LYS:HB3	1:A:221:PRO:HD2	1.97	0.45
1:A:240:GLN:HB3	1:A:284:ARG:HB2	1.98	0.45
1:A:371:GLU:O	1:A:374:GLU:HB2	2.16	0.45
1:B:368:VAL:CG1	1:B:372:HIS:HB2	2.42	0.45
1:A:185:ARG:HH21	1:A:195:VAL:HG21	1.81	0.45
1:A:418:LYS:HB3	1:A:419:PRO:HD2	1.98	0.45
1:B:400:LEU:HD23	1:B:400:LEU:N	2.32	0.45
1:B:182:PHE:CE1	1:B:196:LEU:HD13	2.52	0.44
1:B:369:SER:CB	1:B:372:HIS:ND1	2.79	0.44
1:B:421:LYS:HE3	1:B:421:LYS:HB2	1.53	0.44
1:B:207:GLN:OE1	1:B:210:GLN:CD	2.61	0.44
1:A:265:ARG:HD3	1:A:425:GLN:OE1	2.18	0.44
1:B:381:LYS:O	1:B:382:SER:CB	2.65	0.43
1:A:409:ASN:OD1	1:A:409:ASN:C	2.59	0.43
1:B:215:VAL:HB	1:B:287:LYS:HB2	2.00	0.43
1:B:547:LYS:N	1:B:580:SER:OG	2.51	0.43
1:A:181:ARG:O	3:A:51:HOH:O	2.21	0.43
1:A:522:ALA:HB1	1:A:524:SER:O	2.19	0.43
1:A:405:PRO:HG2	1:A:408:SER:HB2	2.00	0.42
1:B:249:ASN:OD1	1:B:394:ILE:HD11	2.19	0.42
1:B:337:LEU:HA	1:B:337:LEU:HD23	1.82	0.42
1:B:451:LYS:HD3	1:B:536:GLU:O	2.19	0.42
1:B:551:ILE:HG22	1:B:574:ILE:HD11	2.02	0.42
1:A:207:GLN:OE1	1:A:210:GLN:CD	2.63	0.42
1:B:418:LYS:HB3	1:B:419:PRO:HD2	2.02	0.41
1:B:221:PRO:O	1:B:223:THR:HG23	2.20	0.41
1:B:278:HIS:HD2	1:B:281:GLN:CB	2.32	0.41
1:B:198:ARG:HB2	1:B:201:GLN:HG3	2.02	0.41
1:A:214:ILE:HD11	1:A:455:ILE:HG21	2.02	0.41
1:B:254:LYS:HZ3	1:B:390:GLU:HA	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:254:LYS:NZ	1:B:390:GLU:HA	2.35	0.41
1:B:332:ILE:O	1:B:336:LEU:O	2.39	0.41
1:A:216:GLN:HB3	3:A:139:HOH:O	2.21	0.41
1:B:322:GLU:HG2	1:B:327:ALA:O	2.21	0.41
1:B:392:GLY:C	1:B:394:ILE:H	2.29	0.41
1:B:420:ASP:HB3	1:B:422:LYS:H	1.86	0.41
1:A:228:LYS:HE3	3:A:59:HOH:O	2.21	0.41
1:A:246:THR:HG21	1:A:273:TYR:CZ	2.56	0.40
1:B:407:LEU:HD22	1:B:581:HIS:CE1	2.56	0.40
1:B:458:VAL:HG22	1:B:528:LEU:CD2	2.52	0.40
1:A:171:ARG:HB2	1:A:172:ASN:H	1.70	0.40
1:A:275:LEU:HD21	1:A:373:VAL:HG13	2.04	0.40
1:A:309:GLN:CD	1:A:309:GLN:O	2.64	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	362/418 (87%)	355 (98%)	7 (2%)	0	100	100
1	B	355/418 (85%)	346 (98%)	9 (2%)	0	100	100
All	All	717/836 (86%)	701 (98%)	16 (2%)	0	100	100

There are no Ramachandran outliers to report.

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	311/365 (85%)	302 (97%)	9 (3%)	37	49
1	B	271/365 (74%)	258 (95%)	13 (5%)	23	29
All	All	582/730 (80%)	560 (96%)	22 (4%)	29	39

All (22) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	183	SER
1	A	220	LYS
1	A	236	LEU
1	A	333	ARG
1	A	377	THR
1	A	422	LYS
1	A	496	GLU
1	A	518	VAL
1	A	574	ILE
1	B	179	SER
1	B	236	LEU
1	B	249	ASN
1	B	336	LEU
1	B	394	ILE
1	B	400	LEU
1	B	402	GLU
1	B	408	SER
1	B	421	LYS
1	B	499	ARG
1	B	518	VAL
1	B	547	LYS
1	B	574	ILE

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	216	GLN
1	A	222	ASN
1	A	239	GLN
1	A	281	GLN
1	B	293	ASN

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Mol	Chain	Res	Type
1	B	396	ASN
1	B	427	GLN
1	B	539	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 oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

Of 2 ligands modelled in this entry, 2 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.

No monomer is involved in short contacts.

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	369/418 (88%)	-0.32	2 (0%) 87 90	13, 31, 54, 67	3 (0%)
1	B	363/418 (86%)	0.65	21 (5%) 29 33	32, 79, 117, 140	1 (0%)
All	All	732/836 (87%)	0.16	23 (3%) 51 58	13, 48, 112, 140	4 (0%)

All (23) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	373	VAL	3.5
1	B	585	ALA	3.1
1	B	363	GLY	2.8
1	B	186	TYR	2.7
1	B	562	ALA	2.6
1	B	248	ALA	2.6
1	B	574	ILE	2.5
1	B	337	LEU	2.4
1	B	495	ARG	2.4
1	B	561	LEU	2.4
1	A	499	ARG	2.3
1	B	520	ILE	2.3
1	B	330	ASN	2.3
1	B	382	SER	2.3
1	B	193	ILE	2.2
1	B	286	ALA	2.1
1	B	379	HIS	2.1
1	B	563	PHE	2.1
1	B	275	LEU	2.1
1	B	474	GLN	2.0
1	B	370	LYS	2.0
1	A	179	SER	2.0
1	B	236	LEU	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
2	CL	B	1	1/1	0.75	0.22	80,80,80,80	0
2	CL	A	1	1/1	0.92	0.20	56,56,56,56	0

6.5 Other polymers [i](#)

There are no such residues in this entry.