



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 9, 2026 – 11:12 AM UTC

PDB ID : 8BRH / pdb_00008brh
Title : Co-crystal structure of She4 with Myo4 peptide
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Deposited on : 2022-11-23
Resolution : 2.40 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

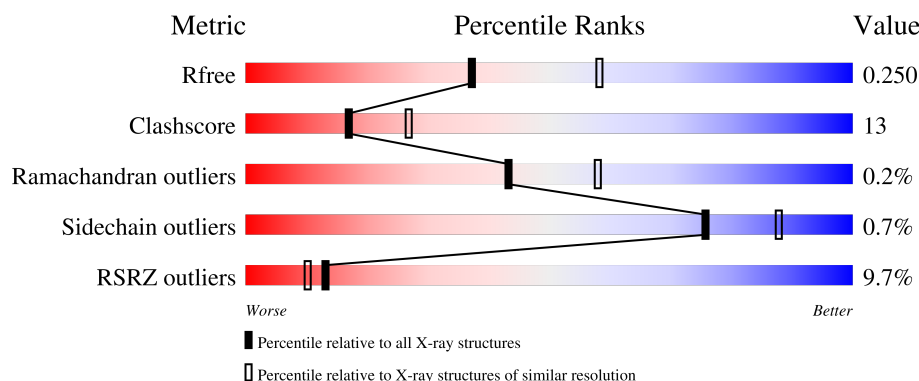
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.40 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	4912 (2.40-2.40)
Clashscore	190562	5391 (2.40-2.40)
Ramachandran outliers	187476	5320 (2.40-2.40)
Sidechain outliers	187428	5321 (2.40-2.40)
RSRZ outliers	180081	4916 (2.40-2.40)

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	669	9% 77% 17% 6%
2	B	7	86% 14%

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 5215 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 KLLA0E16699p.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	632	Total	C	N	O	S	0	0	0
			5020	3190	849	958	23			

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	662	LEU	-	expression tag	UNP Q6CMY7
A	663	GLU	-	expression tag	UNP Q6CMY7
A	664	HIS	-	expression tag	UNP Q6CMY7
A	665	HIS	-	expression tag	UNP Q6CMY7
A	666	HIS	-	expression tag	UNP Q6CMY7
A	667	HIS	-	expression tag	UNP Q6CMY7
A	668	HIS	-	expression tag	UNP Q6CMY7
A	669	HIS	-	expression tag	UNP Q6CMY7

- Molecule 2 is a protein called Myo4 peptide (LYS-PHE-ILE-VAL-SER-HIS-TYR).

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
2	B	7	Total	C	N	O	0	0	0
			63	44	10	9			

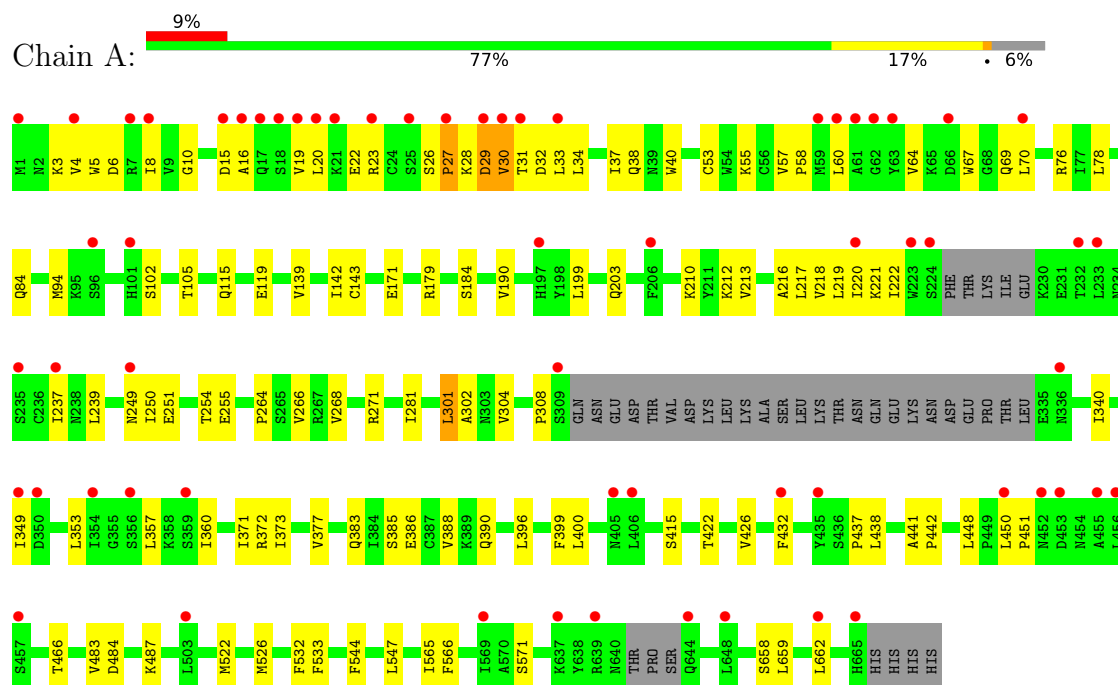
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	130	Total	O	0	0
			130	130		
3	B	2	Total	O	0	0
			2	2		

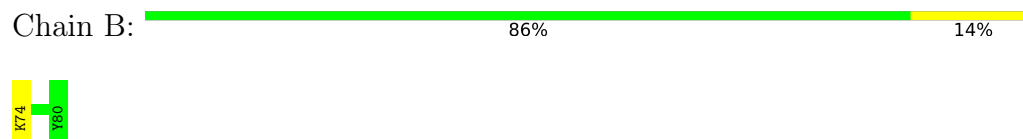
3 Residue-property plots [i](#)

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: KLLA0E16699p



• Molecule 2: Myo4 peptide (LYS-PHE-ILE-VAL-SER-HIS-TYR)



4 Data and refinement statistics

Property	Value	Source
Space group	P 31 2 1	Depositor
Cell constants a, b, c, α , β , γ	128.48Å 128.48Å 77.54Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	49.47 – 2.40 49.47 – 2.40	Depositor EDS
% Data completeness (in resolution range)	99.9 (49.47-2.40) 99.9 (49.47-2.40)	Depositor EDS
R_{merge}	0.14	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.02 (at 2.27Å)	Xtriage
Refinement program	PHENIX 1.21.1_5286	Depositor
R, R_{free}	0.212 , 0.250 0.212 , 0.250	Depositor DCC
R_{free} test set	1748 reflections (5.01%)	wwPDB-VP
Wilson B-factor (Å ²)	56.7	Xtriage
Anisotropy	0.021	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 50.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	0.029 for -h,-k,l	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	5215	wwPDB-VP
Average B, all atoms (Å ²)	68.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.18% 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](#)

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	0.45	0/5093	0.64	2/6897 (0.0%)
2	B	0.39	0/65	0.53	0/86
All	All	0.45	0/5158	0.64	2/6983 (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	A	3	LYS	N-CA-C	-5.25	106.02	112.90
1	A	55	LYS	N-CA-C	-5.10	107.19	113.41

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	5020	0	5135	130	0
2	B	63	0	62	2	0
3	A	130	0	0	2	0
3	B	2	0	0	0	0
All	All	5215	0	5197	130	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 13.

All (130) 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:A:281:ILE:CD1	1:A:353:LEU:HD12	1.69	1.21
1:A:217:LEU:HD12	1:A:220:ILE:HD11	1.37	1.06
1:A:8:ILE:CD1	1:A:19:VAL:HG21	1.86	1.06
1:A:212:LYS:HB3	1:A:239:LEU:CD1	1.89	1.03
1:A:212:LYS:CB	1:A:239:LEU:HD11	1.86	1.02
1:A:281:ILE:HD12	1:A:353:LEU:HD12	1.40	1.02
1:A:217:LEU:O	1:A:220:ILE:HG12	1.62	1.00
1:A:281:ILE:HD13	1:A:353:LEU:HD12	1.48	0.95
1:A:8:ILE:HD11	1:A:19:VAL:HG21	1.49	0.95
1:A:658:SER:O	1:A:662:LEU:HD13	1.70	0.90
1:A:212:LYS:HB3	1:A:239:LEU:HD11	0.93	0.90
1:A:219:LEU:HD23	1:A:222:ILE:HD11	1.53	0.89
1:A:34:LEU:CD1	1:A:60:LEU:HD21	2.04	0.88
1:A:4:VAL:HG13	1:A:19:VAL:CG1	2.06	0.86
1:A:281:ILE:CD1	1:A:353:LEU:CD1	2.54	0.86
1:A:34:LEU:HD12	1:A:60:LEU:HD21	1.59	0.83
1:A:522:MET:HE2	1:A:533:PHE:HE2	1.42	0.83
1:A:658:SER:O	1:A:662:LEU:CD1	2.27	0.83
1:A:8:ILE:HD13	1:A:19:VAL:HG21	1.60	0.81
1:A:8:ILE:HD11	1:A:19:VAL:CG2	2.13	0.79
1:A:349:ILE:CD1	1:A:383:GLN:HB3	2.14	0.77
1:A:438:LEU:CD1	1:A:484:ASP:HB3	2.15	0.77
1:A:217:LEU:O	1:A:220:ILE:CG1	2.33	0.77
1:A:33:LEU:HD23	1:A:60:LEU:HD22	1.66	0.76
1:A:237:ILE:HD13	1:A:266:VAL:HG22	1.68	0.76
1:A:522:MET:CE	1:A:533:PHE:HE2	1.98	0.76
1:A:4:VAL:HG13	1:A:19:VAL:HG11	1.68	0.74
1:A:213:VAL:HG21	1:A:249:ASN:HD22	1.54	0.72
1:A:349:ILE:HD13	1:A:383:GLN:HB3	1.70	0.72
1:A:386:GLU:HG2	3:A:728:HOH:O	1.90	0.70
1:A:64:VAL:HB	1:A:70:LEU:HD11	1.73	0.70
1:A:84:GLN:HE22	1:A:179:ARG:HH22	1.41	0.68
1:A:385:SER:O	1:A:388:VAL:HG22	1.94	0.67
1:A:34:LEU:HD11	1:A:60:LEU:HD21	1.77	0.66
1:A:217:LEU:HD12	1:A:220:ILE:CD1	2.22	0.66
1:A:8:ILE:HD11	1:A:19:VAL:CB	2.26	0.65
1:A:522:MET:HE2	1:A:533:PHE:CE2	2.30	0.64
1:A:448:LEU:HD22	1:A:466:THR:HG23	1.79	0.63
1:A:216:ALA:O	1:A:220:ILE:HG23	1.98	0.63
1:A:57:VAL:N	1:A:58:PRO:HD2	2.13	0.63
1:A:139:VAL:O	1:A:139:VAL:HG12	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:349:ILE:HD11	1:A:377:VAL:CG1	2.28	0.62
1:A:237:ILE:CD1	1:A:266:VAL:HG22	2.30	0.62
1:A:27:PRO:HA	1:A:30:VAL:HG12	1.82	0.61
1:A:4:VAL:CG1	1:A:19:VAL:CG1	2.78	0.60
1:A:281:ILE:HD13	1:A:353:LEU:CD1	2.26	0.59
1:A:8:ILE:CD1	1:A:19:VAL:CG2	2.69	0.59
1:A:5:TRP:CE3	1:A:37:ILE:HD11	2.38	0.58
1:A:34:LEU:HD23	1:A:69:GLN:O	2.04	0.58
1:A:4:VAL:CG1	1:A:19:VAL:HG11	2.32	0.58
1:A:27:PRO:O	1:A:28:LYS:C	2.45	0.58
1:A:271:ARG:HG3	1:A:304:VAL:CG1	2.34	0.57
1:A:8:ILE:HD12	1:A:16:ALA:HA	1.87	0.57
1:A:33:LEU:CD2	1:A:60:LEU:HD22	2.33	0.57
1:A:219:LEU:HA	1:A:222:ILE:HG12	1.87	0.57
1:A:139:VAL:HG12	1:A:143:CYS:HB2	1.85	0.56
1:A:571:SER:OG	2:B:74:LYS:HD3	2.06	0.56
1:A:522:MET:CE	1:A:533:PHE:CE2	2.85	0.56
1:A:547:LEU:HG	1:A:566:PHE:CZ	2.40	0.56
1:A:271:ARG:HG3	1:A:304:VAL:HG13	1.88	0.56
1:A:385:SER:O	1:A:388:VAL:CG2	2.54	0.55
1:A:33:LEU:O	1:A:37:ILE:HG12	2.07	0.55
1:A:217:LEU:C	1:A:220:ILE:HG12	2.32	0.54
1:A:220:ILE:HG13	1:A:221:LYS:N	2.22	0.54
1:A:658:SER:O	1:A:662:LEU:HD12	2.08	0.54
1:A:199:LEU:O	1:A:203:GLN:HG3	2.09	0.53
1:A:29:ASP:O	1:A:33:LEU:HB3	2.09	0.52
1:A:349:ILE:HD11	1:A:383:GLN:HB3	1.89	0.52
1:A:78:LEU:HD21	1:A:139:VAL:HG21	1.92	0.52
1:A:27:PRO:O	1:A:31:THR:N	2.43	0.51
1:A:522:MET:HG3	1:A:565:ILE:HG23	1.93	0.51
1:A:171:GLU:HB3	1:A:210:LYS:NZ	2.24	0.51
1:A:5:TRP:CZ2	1:A:37:ILE:HD12	2.46	0.51
1:A:251:GLU:O	1:A:254:THR:HG22	2.11	0.51
1:A:281:ILE:HD12	1:A:353:LEU:CD1	2.28	0.51
1:A:20:LEU:HA	1:A:23:ARG:HE	1.75	0.51
1:A:19:VAL:O	1:A:22:GLU:N	2.44	0.50
1:A:5:TRP:CE2	1:A:37:ILE:CD1	2.95	0.49
1:A:31:THR:O	1:A:32:ASP:C	2.54	0.49
1:A:171:GLU:HB3	1:A:210:LYS:CE	2.42	0.49
1:A:5:TRP:CZ2	1:A:53:CYS:SG	3.03	0.49
1:A:441:ALA:HB3	1:A:442:PRO:HD3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:254:THR:HG23	1:A:255:GLU:N	2.26	0.49
1:A:139:VAL:O	1:A:139:VAL:CG1	2.61	0.48
1:A:94:MET:CG	1:A:142:ILE:HD11	2.44	0.48
1:A:526:MET:HB2	3:A:727:HOH:O	2.14	0.48
1:A:571:SER:OG	2:B:74:LYS:CD	2.62	0.48
1:A:102:SER:O	1:A:105:THR:HG22	2.14	0.48
1:A:422:THR:O	1:A:426:VAL:HG22	2.15	0.47
1:A:432:PHE:CD2	1:A:437:PRO:HA	2.50	0.47
1:A:371:ILE:HD12	1:A:396:LEU:HD23	1.97	0.47
1:A:94:MET:HG2	1:A:142:ILE:HD11	1.97	0.46
1:A:115:GLN:O	1:A:119:GLU:HG3	2.16	0.46
1:A:5:TRP:HZ2	1:A:53:CYS:SG	2.39	0.46
1:A:438:LEU:CD1	1:A:484:ASP:CB	2.91	0.46
1:A:301:LEU:HD23	1:A:373:ILE:HD13	1.99	0.45
1:A:184:SER:HB2	1:A:190:VAL:HG11	1.99	0.45
1:A:28:LYS:HE2	1:A:28:LYS:HB3	1.77	0.44
1:A:5:TRP:CZ2	1:A:37:ILE:CD1	2.99	0.44
1:A:371:ILE:HG21	1:A:415:SER:OG	2.17	0.44
1:A:218:VAL:O	1:A:222:ILE:HG12	2.18	0.44
1:A:385:SER:C	1:A:388:VAL:HG22	2.42	0.44
1:A:302:ALA:HB1	1:A:372:ARG:HG2	1.99	0.44
1:A:38:GLN:O	1:A:76:ARG:NH2	2.51	0.44
1:A:308:PRO:HD3	1:A:340:ILE:HD12	1.98	0.44
1:A:6:ASP:O	1:A:10:GLY:N	2.51	0.43
1:A:250:ILE:O	1:A:254:THR:HG22	2.19	0.43
1:A:483:VAL:HG12	1:A:487:LYS:HE3	2.01	0.43
1:A:5:TRP:CH2	1:A:37:ILE:HD12	2.53	0.43
1:A:5:TRP:CZ3	1:A:37:ILE:HD11	2.53	0.43
1:A:532:PHE:O	1:A:544:PHE:HB2	2.19	0.42
1:A:217:LEU:CD1	1:A:220:ILE:HD11	2.26	0.42
1:A:26:SER:O	1:A:30:VAL:HB	2.20	0.42
1:A:399:PHE:CD2	1:A:415:SER:OG	2.71	0.42
1:A:23:ARG:CD	1:A:33:LEU:HD22	2.49	0.42
1:A:264:PRO:O	1:A:268:VAL:HG23	2.20	0.42
1:A:5:TRP:CD2	1:A:37:ILE:HD11	2.55	0.41
1:A:27:PRO:O	1:A:30:VAL:N	2.53	0.41
1:A:659:LEU:HA	1:A:662:LEU:HD13	2.02	0.41
1:A:4:VAL:O	1:A:8:ILE:HG12	2.21	0.41
1:A:5:TRP:HE1	1:A:40:TRP:CG	2.38	0.41
1:A:450:LEU:O	1:A:451:PRO:C	2.62	0.41
1:A:15:ASP:O	1:A:19:VAL:HG23	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:67:TRP:C	1:A:69:GLN:H	2.29	0.41
1:A:8:ILE:HD11	1:A:19:VAL:HB	2.02	0.40
1:A:386:GLU:O	1:A:390:GLN:HG3	2.21	0.40
1:A:349:ILE:HD11	1:A:377:VAL:HG11	2.01	0.40
1:A:357:LEU:HA	1:A:360:ILE:HG22	2.03	0.40
1:A:438:LEU:HD13	1:A:484:ASP:HB3	2.00	0.40
1:A:522:MET:HE1	1:A:533:PHE:CE2	2.56	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	624/669 (93%)	604 (97%)	19 (3%)	1 (0%)	43	58
2	B	5/7 (71%)	5 (100%)	0	0	100	100
All	All	629/676 (93%)	609 (97%)	19 (3%)	1 (0%)	43	58

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	27	PRO

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	576/612 (94%)	572 (99%)	4 (1%)	76	88
2	B	7/7 (100%)	7 (100%)	0	100	100
All	All	583/619 (94%)	579 (99%)	4 (1%)	76	88

All (4) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	29	ASP
1	A	30	VAL
1	A	301	LEU
1	A	400	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (9) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	35	HIS
1	A	84	GLN
1	A	104	ASN
1	A	175	ASN
1	A	249	ASN
1	A	376	ASN
1	A	460	GLN
1	A	480	ASN
1	A	616	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

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	632/669 (94%)	0.38	62 (9%) 13 10	36, 62, 121, 214	0
2	B	7/7 (100%)	0.20	0 100 100	48, 51, 60, 67	0
All	All	639/676 (94%)	0.37	62 (9%) 13 10	36, 62, 121, 214	0

All (62) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	29	ASP	5.0
1	A	20	LEU	4.4
1	A	223	TRP	4.3
1	A	456	LEU	4.0
1	A	30	VAL	3.8
1	A	1	MET	3.7
1	A	662	LEU	3.6
1	A	237	ILE	3.6
1	A	665	HIS	3.5
1	A	23	ARG	3.5
1	A	60	LEU	3.5
1	A	224	SER	3.4
1	A	455	ALA	3.4
1	A	406	LEU	3.4
1	A	66	ASP	3.3
1	A	503	LEU	3.3
1	A	19	VAL	3.3
1	A	8	ILE	3.1
1	A	637	LYS	3.1
1	A	356	SER	3.0
1	A	405	ASN	3.0
1	A	644	GLN	3.0
1	A	336	ASN	3.0
1	A	59	MET	2.9

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Mol	Chain	Res	Type	RSRZ
1	A	232	THR	2.9
1	A	220	ILE	2.8
1	A	15	ASP	2.8
1	A	452	ASN	2.8
1	A	639	ARG	2.8
1	A	18	SER	2.8
1	A	453	ASP	2.7
1	A	359	SER	2.7
1	A	16	ALA	2.6
1	A	235	SER	2.6
1	A	457	SER	2.6
1	A	61	ALA	2.6
1	A	17	GLN	2.5
1	A	25	SER	2.5
1	A	27	PRO	2.5
1	A	33	LEU	2.5
1	A	569	ILE	2.5
1	A	249	ASN	2.4
1	A	96	SER	2.4
1	A	450	LEU	2.4
1	A	101	HIS	2.4
1	A	206	PHE	2.4
1	A	309	SER	2.3
1	A	354	ILE	2.3
1	A	21	LYS	2.3
1	A	62	GLY	2.3
1	A	432	PHE	2.3
1	A	63	TYR	2.3
1	A	435	TYR	2.2
1	A	233	LEU	2.2
1	A	648	LEU	2.2
1	A	350	ASP	2.2
1	A	31	THR	2.1
1	A	70	LEU	2.1
1	A	4	VAL	2.1
1	A	7	ARG	2.1
1	A	349	ILE	2.1
1	A	197	HIS	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 [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

There are no ligands in this entry.

6.5 Other polymers [i](#)

There are no such residues in this entry.