



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 03:44 PM UTC

PDB ID : 1Z3S / pdb_00001z3s
Title : Angiopoietin-2 Receptor Binding Domain
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Deposited on : 2005-03-14
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

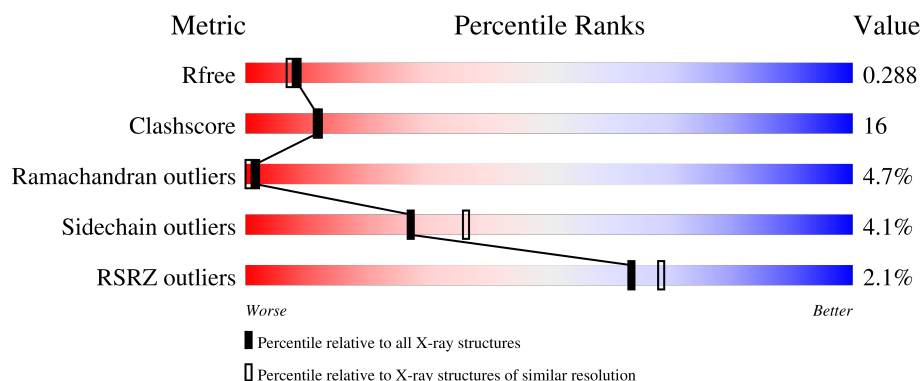
1 Overall quality at a glance

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	217	2% 63% 31% ..
1	B	217	2% 66% 29% ..

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 3697 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 Angiopoietin-2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	216	Total	C	N	O	S	0	0	0
			1739	1102	293	333	11			
1	B	216	Total	C	N	O	S	0	0	0
			1739	1102	293	333	11			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	280	GLU	-	cloning artifact	UNP O15123
B	280	GLU	-	cloning artifact	UNP O15123

- Molecule 2 is CALCIUM ION (CCD ID: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	1	Total	Ca	0	0
			1	1		
2	B	1	Total	Ca	0	0
			1	1		

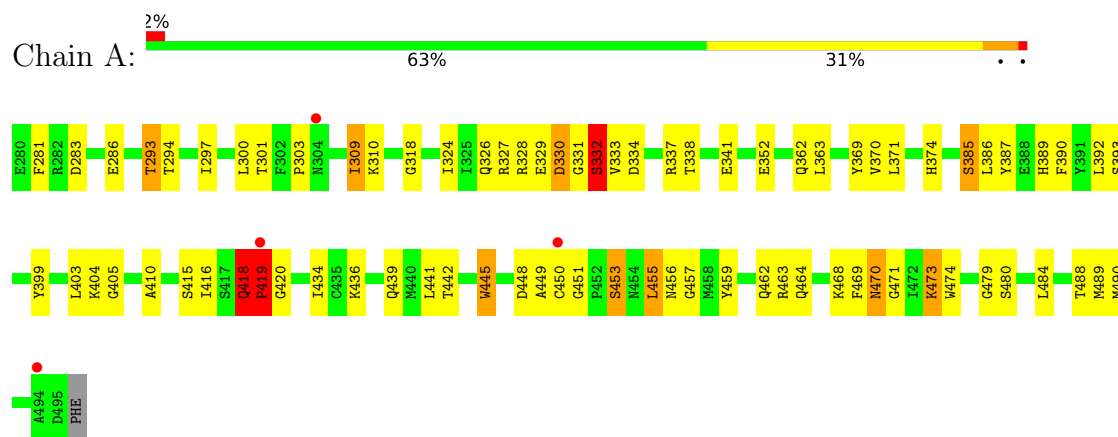
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	113	Total	O	0	0
			113	113		
3	B	104	Total	O	0	0
			104	104		

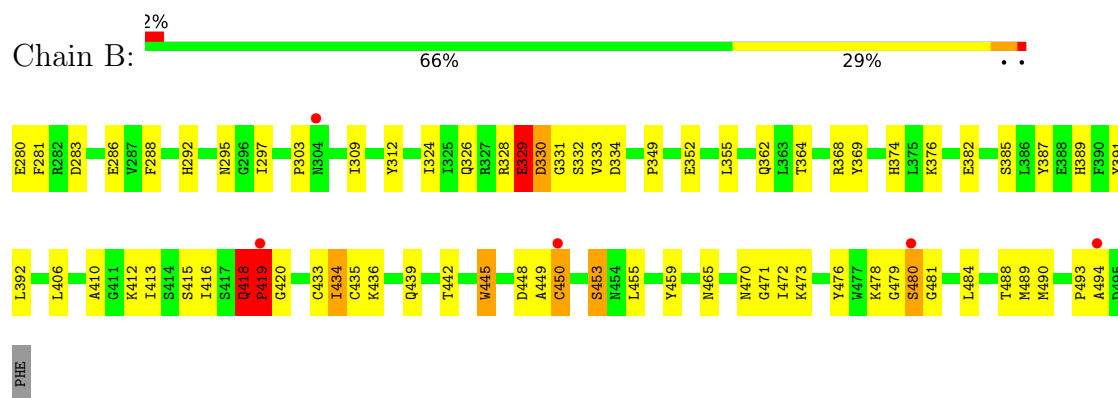
3 Residue-property plots

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: Angiopoietin-2



• Molecule 1: Angiopoietin-2



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	74.19Å 136.45Å 47.73Å 90.00° 93.43° 90.00°	Depositor
Resolution (Å)	8.00 – 2.35 8.00 – 2.36	Depositor EDS
% Data completeness (in resolution range)	(Not available) (8.00-2.35) 92.2 (8.00-2.36)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.91 (at 2.36Å)	Xtriage
Refinement program	CNS 1.0	Depositor
R, R_{free}	0.229 , 0.287 0.223 , 0.288	Depositor DCC
R_{free} test set	906 reflections (4.74%)	wwPDB-VP
Wilson B-factor (Å ²)	22.0	Xtriage
Anisotropy	1.044	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.51 , 65.9	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	3697	wwPDB-VP
Average B, all atoms (Å ²)	27.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.44% 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

5.1 Standard geometry

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

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	0/1788	1.04	13/2415 (0.5%)
1	B	0.43	0/1788	1.00	14/2415 (0.6%)
All	All	0.44	0/3576	1.02	27/4830 (0.6%)

There are no bond length outliers.

All (27) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	449	ALA	N-CA-C	-11.87	95.29	111.55
1	B	449	ALA	N-CA-C	-8.26	93.22	110.80
1	A	331	GLY	N-CA-C	-7.98	94.26	113.18
1	B	434	ILE	N-CA-C	-7.29	103.52	113.00
1	B	331	GLY	N-CA-C	-7.19	96.14	113.18
1	A	434	ILE	N-CA-C	-7.17	103.69	113.00
1	B	418	GLN	CA-C-N	-7.09	110.98	119.84
1	B	418	GLN	C-N-CA	-7.09	110.98	119.84
1	A	418	GLN	CA-C-N	-6.85	111.27	119.84
1	A	418	GLN	C-N-CA	-6.85	111.27	119.84
1	B	453	SER	N-CA-C	6.56	118.53	108.42
1	A	453	SER	N-CA-C	5.95	117.58	108.42
1	A	471	GLY	N-CA-C	5.93	123.30	112.27
1	A	484	LEU	N-CA-C	5.71	117.91	110.43
1	A	473	LYS	N-CA-C	5.66	118.96	109.95
1	B	450	CYS	N-CA-C	-5.65	98.77	110.80
1	A	479	GLY	N-CA-C	5.34	119.84	112.52
1	A	469	PHE	N-CA-C	-5.33	106.62	113.01
1	B	465	ASN	N-CA-C	5.30	119.39	113.02
1	B	484	LEU	N-CA-C	5.26	117.48	110.53
1	B	329	GLU	N-CA-C	-5.20	99.73	110.80
1	A	464	GLN	N-CA-C	-5.14	106.56	114.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	473	LYS	N-CA-C	5.04	117.97	109.95
1	B	471	GLY	N-CA-C	5.04	125.12	113.18
1	B	479	GLY	N-CA-C	5.01	121.60	112.58
1	A	385	SER	N-CA-C	-5.01	101.71	109.72
1	B	412	LYS	N-CA-C	-5.00	107.23	113.38

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	1739	0	1619	59	0
1	B	1739	0	1619	48	0
2	A	1	0	0	0	0
2	B	1	0	0	0	0
3	A	113	0	0	6	0
3	B	104	0	0	4	0
All	All	3697	0	3238	107	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 16.

All (107) 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:418:GLN:HB3	1:B:419:PRO:HD2	1.19	1.17
1:A:418:GLN:HB3	1:A:419:PRO:HD2	1.13	1.10
1:A:418:GLN:HB3	1:A:419:PRO:CD	1.99	0.92
1:A:418:GLN:CB	1:A:419:PRO:HD2	2.00	0.92
1:B:418:GLN:CB	1:B:419:PRO:HD2	2.04	0.87
1:B:418:GLN:HB3	1:B:419:PRO:CD	2.05	0.84
1:A:326:GLN:HG2	1:A:489:MET:SD	2.23	0.78
1:A:303:PRO:HG2	1:A:362:GLN:HE21	1.54	0.71
1:A:301:THR:HG23	3:A:33:HOH:O	1.90	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:309:ILE:HD13	1:A:310:LYS:N	2.09	0.67
1:A:324:ILE:HD13	1:A:490:MET:HB3	1.77	0.67
1:B:330:ASP:HB2	1:B:459:TYR:CE2	2.30	0.67
1:A:374:HIS:HB3	1:A:488:THR:CG2	2.28	0.64
1:A:330:ASP:HB2	1:A:459:TYR:CZ	2.32	0.64
1:B:374:HIS:HB3	1:B:488:THR:CG2	2.29	0.63
1:B:418:GLN:O	1:B:419:PRO:C	2.42	0.62
1:B:326:GLN:HG2	1:B:489:MET:SD	2.39	0.61
1:A:418:GLN:O	1:A:419:PRO:C	2.38	0.61
1:A:416:ILE:HG12	1:A:445:TRP:CH2	2.36	0.61
1:B:330:ASP:HB2	1:B:459:TYR:CZ	2.35	0.61
1:A:453:SER:HA	1:A:473:LYS:HG3	1.81	0.60
1:A:448:ASP:C	1:A:450:CYS:H	2.10	0.59
1:A:328:ARG:HH21	1:A:456:ASN:HA	1.65	0.59
1:B:413:ILE:HD12	1:B:413:ILE:N	2.18	0.58
1:A:462:GLN:HG2	1:A:463:ARG:HG3	1.86	0.58
1:B:280:GLU:N	3:B:17:HOH:O	2.36	0.58
1:B:333:VAL:O	1:B:334:ASP:HB3	2.04	0.57
1:B:436:LYS:HB3	1:B:439:GLN:HG3	1.88	0.55
1:A:416:ILE:HG12	1:A:445:TRP:HH2	1.70	0.55
1:A:333:VAL:O	1:A:334:ASP:HB3	2.06	0.54
1:A:337:ARG:HB3	1:A:341:GLU:OE1	2.08	0.54
1:B:364:THR:HB	1:B:391:TYR:HA	1.91	0.53
1:A:330:ASP:HA	1:A:352:GLU:OE2	2.09	0.53
1:B:376:LYS:HE3	1:B:382:GLU:OE1	2.08	0.53
1:B:448:ASP:C	1:B:450:CYS:H	2.16	0.53
1:A:371:LEU:HD22	1:A:390:PHE:CD2	2.44	0.53
1:B:488:THR:OG1	1:B:490:MET:HE2	2.09	0.53
1:B:385:SER:OG	1:B:410:ALA:HB3	2.08	0.53
1:B:330:ASP:HA	1:B:352:GLU:OE2	2.09	0.52
1:A:418:GLN:HA	1:A:418:GLN:OE1	2.10	0.52
1:B:374:HIS:HB3	1:B:488:THR:HG23	1.90	0.52
1:A:309:ILE:HD13	1:A:310:LYS:H	1.74	0.51
1:B:297:ILE:HD12	1:B:349:PRO:HB2	1.92	0.51
1:A:281:PHE:HD1	1:A:286:GLU:HG2	1.76	0.51
1:A:332:SER:HB3	3:A:9:HOH:O	2.10	0.51
1:A:445:TRP:NE1	3:A:1:HOH:O	2.29	0.50
1:A:462:GLN:O	1:A:463:ARG:HB2	2.12	0.50
1:B:328:ARG:NH1	1:B:472:ILE:HD11	2.26	0.50
1:B:330:ASP:HA	1:B:352:GLU:CD	2.36	0.50
1:B:324:ILE:HD12	1:B:324:ILE:N	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:328:ARG:NH2	1:A:457:GLY:O	2.42	0.48
1:B:309:ILE:HD11	1:B:355:LEU:O	2.13	0.48
1:B:368:ARG:HG2	1:B:389:HIS:CE1	2.48	0.48
1:A:338:THR:OG1	1:A:341:GLU:HG3	2.13	0.48
1:A:374:HIS:HB3	1:A:488:THR:HG23	1.95	0.48
1:B:478:LYS:HA	1:B:478:LYS:HE2	1.94	0.47
1:A:330:ASP:HB2	1:A:459:TYR:CE2	2.50	0.47
1:B:433:CYS:C	1:B:435:CYS:N	2.72	0.47
1:A:327:ARG:HH11	1:A:327:ARG:HG3	1.80	0.47
1:A:297:ILE:HD12	1:A:297:ILE:N	2.30	0.46
1:B:481:GLY:N	3:B:11:HOH:O	2.48	0.46
1:A:385:SER:OG	1:A:410:ALA:HB3	2.14	0.46
1:A:303:PRO:HG2	1:A:362:GLN:HB3	1.97	0.46
1:B:445:TRP:CZ3	1:B:453:SER:OG	2.68	0.45
1:B:494:ALA:N	3:B:44:HOH:O	2.49	0.45
1:B:434:ILE:O	1:B:434:ILE:HG22	2.16	0.45
1:A:334:ASP:O	1:A:337:ARG:HD3	2.15	0.45
1:A:387:TYR:CD1	1:A:403:LEU:HD22	2.52	0.45
1:A:488:THR:HG22	3:A:67:HOH:O	2.17	0.45
1:B:415:SER:HB3	1:B:453:SER:HB3	1.99	0.45
1:B:303:PRO:HG2	1:B:362:GLN:HE21	1.80	0.45
1:B:434:ILE:HD12	1:B:434:ILE:N	2.31	0.45
1:B:295:ASN:HB3	1:B:312:TYR:OH	2.16	0.45
1:A:404:LYS:HB2	1:A:404:LYS:HE3	1.81	0.44
1:B:374:HIS:HE1	1:B:382:GLU:OE1	1.99	0.44
1:A:328:ARG:HH21	1:A:456:ASN:C	2.25	0.44
1:B:433:CYS:C	1:B:435:CYS:H	2.25	0.44
1:A:310:LYS:HG3	3:A:206:HOH:O	2.17	0.44
1:A:328:ARG:HH21	1:A:456:ASN:CA	2.30	0.44
1:A:455:LEU:HB2	3:A:1:HOH:O	2.17	0.44
1:A:326:GLN:HG3	1:A:489:MET:HB2	1.99	0.44
1:B:288:PHE:HA	1:B:292:HIS:O	2.18	0.44
1:B:283:ASP:OD2	1:B:283:ASP:C	2.60	0.44
1:B:329:GLU:HG3	1:B:330:ASP:N	2.33	0.43
1:B:480:SER:HB3	3:B:11:HOH:O	2.17	0.43
1:A:303:PRO:CG	1:A:362:GLN:HE21	2.28	0.43
1:B:418:GLN:CB	1:B:419:PRO:CD	2.82	0.43
1:A:363:LEU:HA	1:A:363:LEU:HD23	1.87	0.43
1:A:468:LYS:C	1:A:470:ASN:H	2.27	0.43
1:B:416:ILE:HG12	1:B:445:TRP:CH2	2.54	0.42
1:A:363:LEU:HD22	1:A:369:TYR:OH	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:393:SER:O	1:A:399:TYR:HA	2.19	0.42
1:B:369:TYR:CE1	1:B:493:PRO:HD3	2.55	0.42
1:A:387:TYR:CE1	1:A:403:LEU:HD13	2.55	0.41
1:B:418:GLN:HA	1:B:418:GLN:OE1	2.19	0.41
1:A:418:GLN:CB	1:A:419:PRO:CD	2.79	0.41
1:A:470:ASN:HD22	1:A:470:ASN:HA	1.58	0.41
1:A:370:VAL:CG1	1:A:386:LEU:HD11	2.50	0.41
1:A:293:THR:O	1:A:293:THR:HG23	2.20	0.41
1:A:369:TYR:O	1:A:389:HIS:HA	2.20	0.41
1:A:283:ASP:HA	1:A:300:LEU:HD13	2.03	0.40
1:A:303:PRO:CG	1:A:362:GLN:HB3	2.50	0.40
1:B:387:TYR:CZ	1:B:406:LEU:HD13	2.56	0.40
1:B:281:PHE:HD1	1:B:286:GLU:HG2	1.86	0.40
1:B:376:LYS:HG2	1:B:382:GLU:HG2	2.04	0.40
1:A:436:LYS:HD3	1:A:439:GLN:NE2	2.36	0.40
1:A:415:SER:HB2	1:A:474:TRP:CE2	2.56	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	214/217 (99%)	185 (86%)	18 (8%)	11 (5%)	1	0
1	B	214/217 (99%)	187 (87%)	18 (8%)	9 (4%)	2	1
All	All	428/434 (99%)	372 (87%)	36 (8%)	20 (5%)	2	0

All (20) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	332	SER
1	A	419	PRO

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Mol	Chain	Res	Type
1	A	480	SER
1	B	329	GLU
1	B	419	PRO
1	B	480	SER
1	A	318	GLY
1	A	329	GLU
1	A	451	GLY
1	B	420	GLY
1	B	476	TYR
1	A	330	ASP
1	A	405	GLY
1	A	420	GLY
1	B	330	ASP
1	B	332	SER
1	A	442	THR
1	B	442	THR
1	A	418	GLN
1	B	418	GLN

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	183/185 (99%)	173 (94%)	10 (6%)	19	24
1	B	183/185 (99%)	178 (97%)	5 (3%)	39	52
All	All	366/370 (99%)	351 (96%)	15 (4%)	27	36

All (15) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	293	THR
1	A	294	THR
1	A	309	ILE
1	A	332	SER
1	A	392	LEU

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Mol	Chain	Res	Type
1	A	419	PRO
1	A	441	LEU
1	A	445	TRP
1	A	455	LEU
1	A	470	ASN
1	B	392	LEU
1	B	419	PRO
1	B	445	TRP
1	B	455	LEU
1	B	470	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (15) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	362	GLN
1	A	366	GLN
1	A	374	HIS
1	A	389	HIS
1	A	439	GLN
1	A	470	ASN
1	B	336	GLN
1	B	362	GLN
1	B	365	ASN
1	B	366	GLN
1	B	374	HIS
1	B	389	HIS
1	B	430	ASN
1	B	464	GLN
1	B	470	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 [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

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 [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 [i](#)

6.1 Protein, DNA and RNA chains [i](#)

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	216/217 (99%)	-0.28	4 (1%) 66 71	15, 25, 37, 44	0
1	B	216/217 (99%)	-0.20	5 (2%) 61 66	14, 27, 39, 47	0
All	All	432/434 (99%)	-0.24	9 (2%) 63 68	14, 26, 38, 47	0

All (9) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	494	ALA	4.4
1	B	419	PRO	4.2
1	A	419	PRO	3.4
1	A	450	CYS	3.4
1	B	450	CYS	2.7
1	B	304	ASN	2.6
1	A	494	ALA	2.6
1	B	480	SER	2.1
1	A	304	ASN	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(Å ²)	Q<0.9
2	CA	A	497	1/1	0.97	0.02	31,31,31,31	0
2	CA	B	497	1/1	0.98	0.02	36,36,36,36	0

6.5 Other polymers [i](#)

There are no such residues in this entry.