



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 1, 2016 – 11:02 AM GMT

PDB ID : 3NOA
Title : Crystal structure of human PPAR-gamma ligand binding domain complex with a potency improved agonist
Authors : Peng, Y.H.; Wu, J.S.; Wu, S.Y.
Deposited on : 2010-06-25
Resolution : 1.98 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
<http://wwpdb.org/validation/2016/XrayValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

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

MolProbity : 4.02b-467
Mogul : 1.7 (RC4), CSD as536be (2015)
Xtriage (Phenix) : 1.9-1692
EDS : rb-20026688
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
Refmac : 5.8.0135
CCP4 : 6.5.0
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : trunk26865

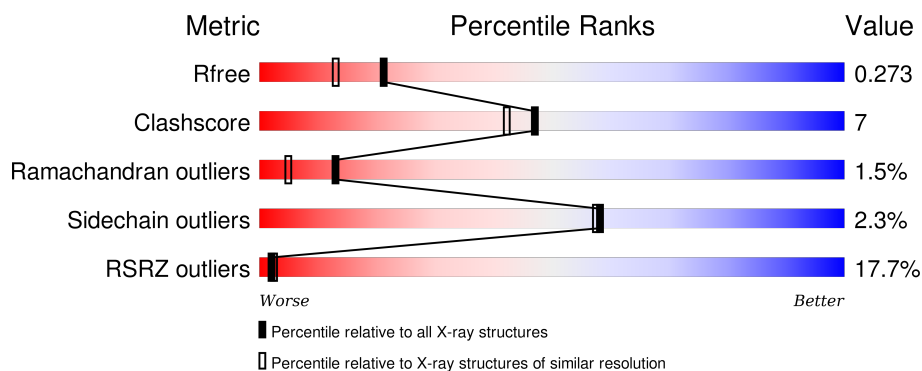
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.98 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}	91344	8664 (2.00-1.96)
Clashscore	102246	9905 (2.00-1.96)
Ramachandran outliers	100387	9792 (2.00-1.96)
Sidechain outliers	100360	9791 (2.00-1.96)
RSRZ outliers	91569	8679 (2.00-1.96)

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. 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	271	<div> <div>16%</div> <div>87%</div> <div>12%</div> <div>.</div> </div>
1	B	271	<div> <div>19%</div> <div>81%</div> <div>17%</div> <div>.</div> </div>

2 Entry composition [i](#)

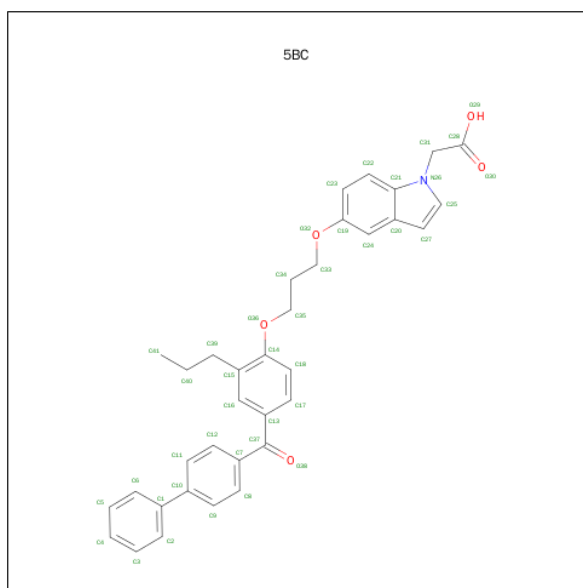
There are 3 unique types of molecules in this entry. The entry contains 4520 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 Peroxisome proliferator-activated receptor gamma.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	271	Total	C	N	O	S	0	0	0
			2178	1406	355	407	10			
1	B	271	Total	C	N	O	S	0	0	0
			2178	1406	355	407	10			

- Molecule 2 is (5-{3-[4-(BIPHENYL-4-YLCARBONYL)-2-PROPYLPHENOXY]PROPOXY}-1H-INDOL-1-YL)ACETIC ACID (three-letter code: 5BC) (formula: C₃₅H₃₃NO₅).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	C	N	O	0	0
			41	35	1	5		
2	B	1	Total	C	N	O	0	0
			41	35	1	5		

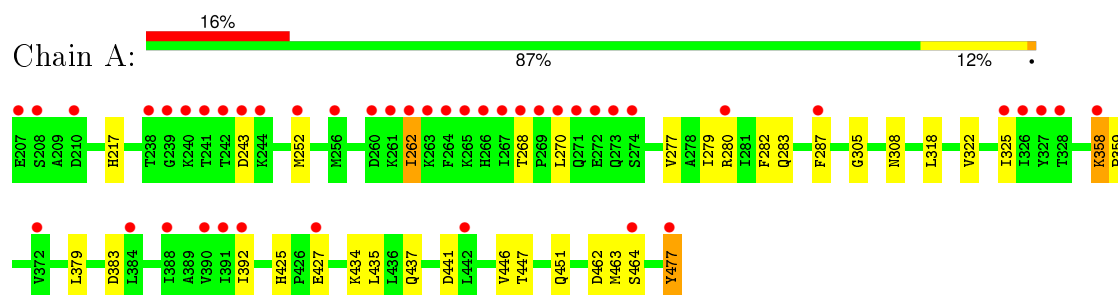
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	35	Total 35	O 35	0	0
3	B	47	Total 47	O 47	0	0

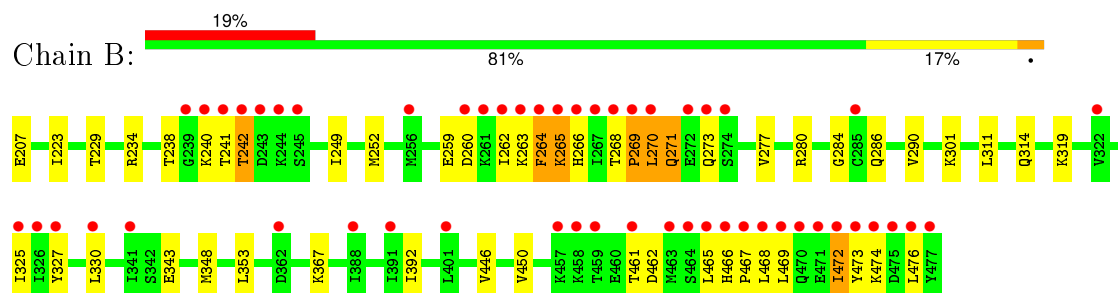
3 Residue-property plots

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 ($\text{RSRZ} > 2$). 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: Peroxisome proliferator-activated receptor gamma



- Molecule 1: Peroxisome proliferator-activated receptor gamma



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	55.40Å 87.74Å 57.67Å 90.00° 90.73° 90.00°	Depositor
Resolution (Å)	30.00 – 1.98 25.86 – 1.98	Depositor EDS
% Data completeness (in resolution range)	97.5 (30.00-1.98) 97.4 (25.86-1.98)	Depositor EDS
R_{merge}	0.06	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.77 (at 1.98Å)	Xtriage
Refinement program	REFMAC 5.5.0109	Depositor
R, R_{free}	0.231 , 0.275 0.231 , 0.273	Depositor DCC
R_{free} test set	1866 reflections (5.23%)	DCC
Wilson B-factor (Å ²)	29.5	Xtriage
Anisotropy	0.182	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.41 , 55.2	EDS
Estimated twinning fraction	0.007 for l,k,-h 0.035 for h,-k,-l 0.026 for l,-k,h	Xtriage
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Outliers	0 of 37592 reflections	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	4520	wwPDB-VP
Average B, all atoms (Å ²)	30.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.58% 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, 0.375 respectively for untwinned datasets, and 0.333, 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: 5BC

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	0.60	0/2216	0.66	0/2985
1	B	0.58	0/2216	0.62	0/2985
All	All	0.59	0/4432	0.64	0/5970

There are no bond length outliers.

There are no bond angle outliers.

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	2178	0	2241	23	0
1	B	2178	0	2241	45	0
2	A	41	0	32	1	0
2	B	41	0	32	3	0
3	A	35	0	0	1	0
3	B	47	0	0	1	0
All	All	4520	0	4546	67	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 7.

All (67) 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:252:MET:CE	1:A:277:VAL:HG21	2.01	0.90
1:A:252:MET:HE3	1:A:277:VAL:HG21	1.60	0.83
1:B:472:ILE:HG22	1:B:473:TYR:H	1.44	0.81
1:B:234:ARG:O	1:B:238:THR:HG23	1.85	0.76
1:A:217:HIS:ND1	1:B:301:LYS:HE3	2.04	0.73
1:B:240:LYS:O	1:B:241:THR:HG22	1.88	0.73
1:B:262:ILE:HG22	1:B:262:ILE:O	1.87	0.72
1:A:252:MET:HE1	1:A:277:VAL:HG21	1.71	0.70
1:A:325:ILE:HD11	1:A:392:ILE:HG13	1.73	0.68
1:B:472:ILE:HG22	1:B:473:TYR:N	2.07	0.68
1:B:270:LEU:O	1:B:271:GLN:HB2	1.92	0.68
1:B:473:TYR:HA	1:B:476:LEU:HD13	1.79	0.64
1:B:319:LYS:HG3	1:B:472:ILE:HG23	1.81	0.62
1:B:367:LYS:HG2	2:B:2:5BC:H33A	1.81	0.62
1:A:262:ILE:O	1:A:262:ILE:HD12	2.00	0.61
1:B:465:LEU:HD23	1:B:469:LEU:HD23	1.83	0.60
1:A:325:ILE:HD11	1:A:392:ILE:CG1	2.32	0.59
1:B:268:THR:N	1:B:269:PRO:HD3	2.19	0.57
1:B:467:PRO:HD3	3:B:72:HOH:O	2.04	0.57
1:A:280:ARG:HG2	2:A:1:5BC:H3	1.87	0.57
1:B:472:ILE:CG2	1:B:473:TYR:H	2.15	0.56
1:B:252:MET:SD	1:B:277:VAL:HG11	2.46	0.56
1:B:450:VAL:HG22	1:B:473:TYR:CE2	2.40	0.56
1:B:259:GLU:OE2	1:B:280:ARG:NH2	2.37	0.55
1:B:223:ILE:HD12	1:B:229:THR:HG21	1.89	0.54
1:B:270:LEU:HD13	1:B:284:GLY:CA	2.38	0.54
1:A:252:MET:CE	1:A:277:VAL:CG2	2.83	0.53
1:A:217:HIS:ND1	1:B:301:LYS:CE	2.72	0.53
1:B:270:LEU:O	1:B:271:GLN:CB	2.57	0.52
1:A:252:MET:HE1	1:A:277:VAL:CG2	2.39	0.52
1:B:265:LYS:O	1:B:266:HIS:CG	2.64	0.51
1:B:290:VAL:HG22	1:B:468:LEU:HB3	1.92	0.50
1:A:358:LYS:HB3	1:A:359:PRO:HD3	1.93	0.50
1:A:282:PHE:CD2	1:A:463:MET:HE3	2.48	0.48
1:B:325:ILE:HD11	1:B:392:ILE:CG1	2.44	0.48
1:A:270:LEU:HA	1:A:287:PHE:CD1	2.48	0.48
1:A:434:LYS:HA	1:A:437:GLN:HE21	1.78	0.48
1:A:383:ASP:OD2	1:A:425:HIS:HE1	1.98	0.47
1:B:262:ILE:CG2	1:B:262:ILE:O	2.59	0.47
1:A:318:LEU:O	1:A:322:VAL:HG13	2.15	0.47
1:B:262:ILE:HD12	1:B:262:ILE:N	2.30	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:311:LEU:HD23	1:B:314:GLN:NE2	2.32	0.45
1:B:269:PRO:HB2	1:B:270:LEU:HD23	1.99	0.45
1:B:461:THR:CG2	1:B:462:ASP:N	2.79	0.45
1:B:461:THR:HG23	1:B:462:ASP:N	2.31	0.45
1:B:319:LYS:NZ	1:B:474:LYS:O	2.47	0.45
2:B:2:5BC:H16	2:B:2:5BC:H40	1.71	0.45
1:B:325:ILE:HD11	1:B:392:ILE:HG13	1.99	0.44
1:A:279:ILE:O	1:A:283:GLN:HG2	2.17	0.44
1:B:241:THR:O	1:B:242:THR:C	2.56	0.44
1:B:270:LEU:H	1:B:270:LEU:HD23	1.83	0.43
1:A:447:THR:O	1:A:451:GLN:HG2	2.18	0.43
1:B:249:ILE:HD12	1:B:249:ILE:N	2.33	0.43
1:B:348:MET:SD	1:B:353:LEU:HD21	2.58	0.43
1:B:260:ASP:HA	1:B:263:LYS:HB3	1.99	0.43
1:A:305:GLY:HA2	1:A:308:ASN:HD22	1.83	0.43
1:A:379:LEU:HD11	1:A:435:LEU:HD13	2.00	0.43
1:B:223:ILE:HD12	1:B:229:THR:CG2	2.49	0.42
1:A:446:VAL:HG11	1:A:477:TYR:HE1	1.84	0.42
1:B:268:THR:HG22	1:B:268:THR:O	2.20	0.42
1:B:264:PHE:CG	1:B:265:LYS:N	2.88	0.42
1:B:286:GLN:HE22	1:B:465:LEU:HG	1.85	0.41
1:B:472:ILE:O	1:B:473:TYR:HB2	2.20	0.41
1:B:319:LYS:HZ3	1:B:476:LEU:CD1	2.33	0.41
1:A:268:THR:HG23	3:A:66:HOH:O	2.20	0.41
1:B:327:TYR:CE2	1:B:446:VAL:HG22	2.56	0.41
1:B:330:LEU:HD21	2:B:2:5BC:H33	2.02	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	269/271 (99%)	258 (96%)	7 (3%)	4 (2%)	13	5
1	B	269/271 (99%)	253 (94%)	12 (4%)	4 (2%)	13	5
All	All	538/542 (99%)	511 (95%)	19 (4%)	8 (2%)	13	5

All (8) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	358	LYS
1	A	464	SER
1	B	269	PRO
1	B	271	GLN
1	A	262	ILE
1	B	242	THR
1	A	462	ASP
1	B	472	ILE

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	244/244 (100%)	240 (98%)	4 (2%)	70	71
1	B	244/244 (100%)	237 (97%)	7 (3%)	50	46
All	All	488/488 (100%)	477 (98%)	11 (2%)	58	57

All (11) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	243	ASP
1	A	427	GLU
1	A	441	ASP
1	A	477	TYR
1	B	207	GLU
1	B	264	PHE
1	B	265	LYS
1	B	270	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	B	273	GLN
1	B	343	GLU
1	B	466	HIS

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	308	ASN
1	A	412	ASN
1	A	425	HIS
1	A	437	GLN
1	B	273	GLN
1	B	286	GLN
1	B	454	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

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

5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

2 ligands are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the chemical component dictionary. The Link column lists molecule types, if any, to which the group is linked. 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 $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	5BC	A	1	-	42,45,45	1.39	7 (16%)	54,61,61	1.24	3 (5%)
2	5BC	B	2	-	42,45,45	1.40	6 (14%)	54,61,61	1.32	7 (12%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the chemical component dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	5BC	A	1	-	-	0/25/27/27	0/5/5/5
2	5BC	B	2	-	-	0/25/27/27	0/5/5/5

All (13) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	2	5BC	C21-N26	-4.19	1.34	1.39
2	A	1	5BC	C21-N26	-3.73	1.35	1.39
2	B	2	5BC	C25-N26	-3.37	1.33	1.38
2	B	2	5BC	C10-C1	-3.34	1.40	1.49
2	A	1	5BC	C10-C1	-3.21	1.40	1.49
2	A	1	5BC	C25-N26	-2.78	1.34	1.38
2	A	1	5BC	C39-C15	2.09	1.55	1.51
2	A	1	5BC	C22-C23	2.10	1.41	1.36
2	B	2	5BC	C22-C23	2.29	1.41	1.36
2	A	1	5BC	C7-C37	2.45	1.53	1.49
2	B	2	5BC	C13-C37	2.57	1.53	1.49
2	B	2	5BC	C7-C37	2.83	1.54	1.49
2	A	1	5BC	C13-C37	2.88	1.54	1.49

All (10) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	2	5BC	O32-C19-C24	-3.42	112.42	123.89
2	A	1	5BC	O32-C19-C24	-3.02	113.76	123.89
2	A	1	5BC	C31-N26-C25	-2.87	120.03	124.78
2	B	2	5BC	C28-C31-N26	-2.28	111.58	114.29
2	B	2	5BC	C31-N26-C25	-2.27	121.03	124.78
2	B	2	5BC	C16-C15-C14	2.01	120.61	118.39
2	B	2	5BC	C35-O36-C14	2.32	123.34	117.64
2	A	1	5BC	C27-C20-C21	3.01	108.77	106.20
2	B	2	5BC	C27-C20-C21	3.46	109.15	106.20
2	B	2	5BC	C33-O32-C19	4.32	128.56	117.91

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

2 monomers are involved in 4 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	1	5BC	1	0
2	B	2	5BC	3	0

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 ⓘ

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	271/271 (100%)	1.07	44 (16%) 3 3	9, 20, 81, 152	0
1	B	271/271 (100%)	1.58	52 (19%) 2 2	11, 22, 106, 167	0
All	All	542/542 (100%)	1.32	96 (17%) 2 2	9, 21, 101, 167	0

All (96) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	267	ILE	30.5
1	B	477	TYR	17.5
1	B	473	TYR	16.9
1	A	264	PHE	14.0
1	B	465	LEU	13.9
1	B	476	LEU	13.9
1	B	264	PHE	13.3
1	B	472	ILE	13.1
1	B	267	ILE	12.7
1	B	469	LEU	10.7
1	B	241	THR	10.0
1	B	263	LYS	9.8
1	B	266	HIS	9.5
1	B	474	LYS	9.5
1	A	265	LYS	9.2
1	B	273	GLN	9.2
1	A	266	HIS	9.0
1	B	470	GLN	8.7
1	B	475	ASP	8.6
1	B	265	LYS	8.6
1	A	262	ILE	8.3
1	A	268	THR	7.6
1	B	274	SER	7.6
1	A	274	SER	7.5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	A	242	THR	7.5
1	B	272	GLU	7.4
1	B	463	MET	6.6
1	A	243	ASP	6.5
1	B	461	THR	6.4
1	A	270	LEU	6.1
1	A	260	ASP	6.0
1	B	467	PRO	5.9
1	A	272	GLU	5.8
1	B	471	GLU	5.7
1	A	477	TYR	5.7
1	B	468	LEU	5.5
1	B	268	THR	5.5
1	B	239	GLY	5.5
1	B	260	ASP	5.4
1	A	244	LYS	5.3
1	A	269	PRO	5.0
1	A	241	THR	4.9
1	B	262	ILE	4.8
1	A	271	GLN	4.7
1	B	240	LYS	4.7
1	A	263	LYS	4.6
1	A	273	GLN	4.6
1	B	243	ASP	4.5
1	A	427	GLU	4.3
1	B	464	SER	4.1
1	B	242	THR	4.0
1	B	362	ASP	3.9
1	B	244	LYS	3.6
1	B	466	HIS	3.4
1	A	325	ILE	3.4
1	A	207	GLU	3.3
1	B	457	LYS	3.2
1	B	261	LYS	3.1
1	B	325	ILE	3.0
1	B	330	LEU	3.0
1	A	358	LYS	3.0
1	A	240	LYS	2.9
1	B	245	SER	2.9
1	B	459	THR	2.8
1	A	326	ILE	2.8
1	A	208	SER	2.7

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	B	458	LYS	2.7
1	B	269	PRO	2.7
1	A	442	LEU	2.6
1	B	322	VAL	2.6
1	B	285	CYS	2.5
1	B	326	ILE	2.5
1	A	391	ILE	2.5
1	A	388	ILE	2.4
1	A	261	LYS	2.4
1	A	238	THR	2.4
1	A	328	THR	2.4
1	B	327	TYR	2.3
1	A	256	MET	2.3
1	A	280	ARG	2.2
1	B	270	LEU	2.2
1	A	372	VAL	2.2
1	B	388	ILE	2.2
1	A	390	VAL	2.2
1	A	327	TYR	2.1
1	A	287	PHE	2.1
1	A	252	MET	2.1
1	A	384	LEU	2.1
1	A	239	GLY	2.1
1	A	392	ILE	2.1
1	A	464	SER	2.1
1	A	210	ASP	2.1
1	B	391	ILE	2.0
1	B	256	MET	2.0
1	B	401	LEU	2.0
1	B	341	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 [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. 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	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
2	5BC	A	1	41/41	0.91	0.23	1.35	24,29,36,40	0
2	5BC	B	2	41/41	0.85	0.25	0.35	31,39,52,55	0

6.5 Other polymers [i](#)

There are no such residues in this entry.