



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 1, 2016 – 12:04 AM GMT

PDB ID : 1ZGY
Title : Structural and Biochemical Basis for Selective Repression of the Orphan Nuclear Receptor LHR-1 by SHP
Authors : Li, Y.; Choi, M.; Suino, K.; Kovach, A.; Daugherty, J.; Kliewer, S.A.; Xu, H.E.
Deposited on : 2005-04-22
Resolution : 1.80 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

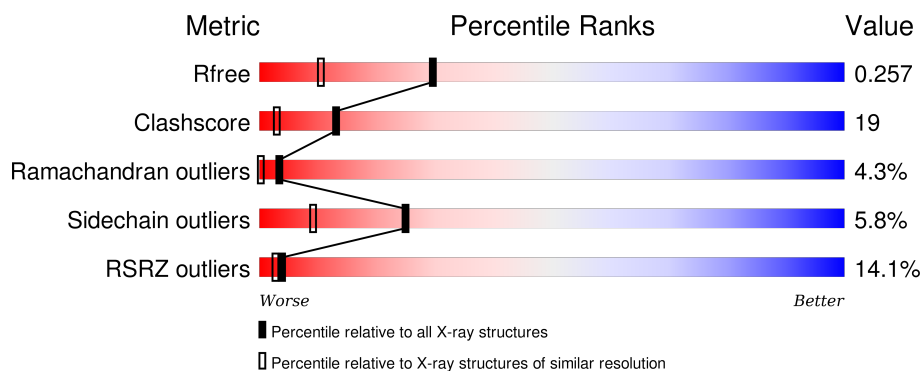
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

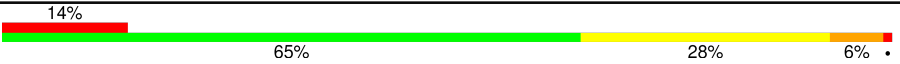
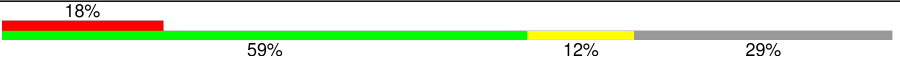
The reported resolution of this entry is 1.80 Å.

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	4533 (1.80-1.80)
Clashscore	102246	5383 (1.80-1.80)
Ramachandran outliers	100387	5320 (1.80-1.80)
Sidechain outliers	100360	5319 (1.80-1.80)
RSRZ outliers	91569	4547 (1.80-1.80)

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	272	
2	B	17	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
3	BRL	A	503	-	-	-	X

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 2464 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.

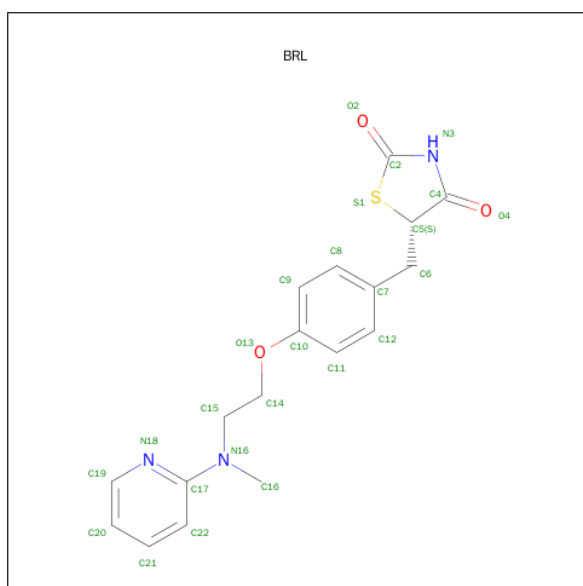
- Molecule 1 is a protein called Peroxisome proliferator activated receptor gamma.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	272	Total	C	N	O	S	0	0	0
			2185	1411	356	408	10			

- Molecule 2 is a protein called Nuclear receptor subfamily 0, group B, member 2.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
2	B	12	Total	C	N	O	0	0	0
			96	65	14	17			

- Molecule 3 is 2,4-THIAZOLIDINEDIONE, 5-[[4-[2-(METHYL-2-PYRIDINYLAMINO)ETHOXY]PHENYL]METHYL]-(9CL) (three-letter code: BRL) (formula: C₁₈H₁₉N₃O₃S).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	A	1	Total	C	N	O	S	0	0
			25	18	3	3	1		

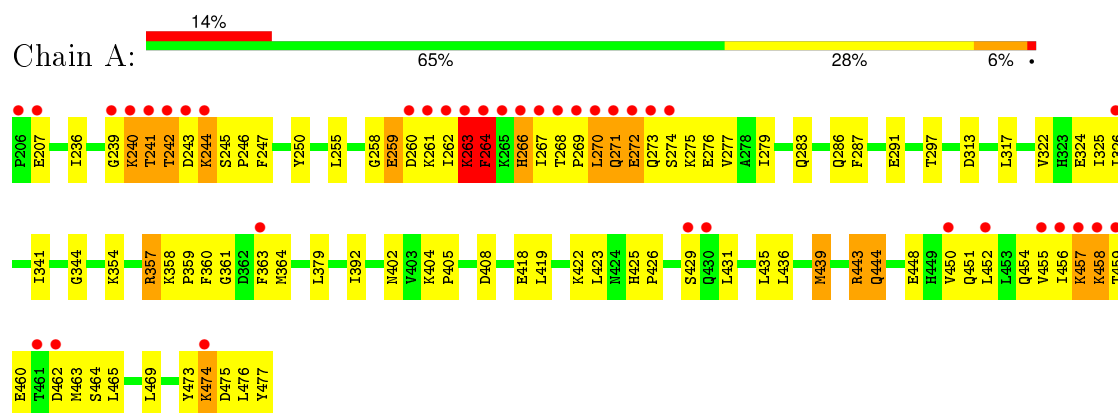
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	156	Total 156	O 156	0	0
4	B	2	Total 2	O 2	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 (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 2: Nuclear receptor subfamily 0, group B, member 2



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	102.60 Å 54.49 Å 66.50 Å 90.00° 97.50° 90.00°	Depositor
Resolution (Å)	50.00 – 1.80 28.79 – 1.80	Depositor EDS
% Data completeness (in resolution range)	99.0 (50.00-1.80) 99.1 (28.79-1.80)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.68 (at 1.80 Å)	Xtriage
Refinement program	CNS 1.1	Depositor
R, R_{free}	0.231 , 0.258 0.231 , 0.257	Depositor DCC
R_{free} test set	2692 reflections (8.05%)	DCC
Wilson B-factor (Å ²)	29.5	Xtriage
Anisotropy	0.688	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 53.1	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Outliers	0 of 33433 reflections	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	2464	wwPDB-VP
Average B, all atoms (Å ²)	46.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.96% 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: BRL

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	0.32	0/2224	0.57	0/2996
2	B	0.30	0/97	0.65	0/129
All	All	0.32	0/2321	0.57	0/3125

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	2185	0	2249	88	4
2	B	96	0	112	2	0
3	A	25	0	19	2	0
4	A	156	0	0	2	1
4	B	2	0	0	0	0
All	All	2464	0	2380	89	5

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 19.

All (89) 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:263:LYS:O	1:A:264:PHE:HB2	1.74	0.86
1:A:279:ILE:O	1:A:283:GLN:HG3	1.84	0.78
1:A:241:THR:HB	1:A:244:LYS:HB2	1.65	0.78
1:A:457:LYS:O	1:A:457:LYS:HE3	1.88	0.74
1:A:236:ILE:HA	1:A:241:THR:HG22	1.71	0.73
1:A:279:ILE:HD12	1:A:463:MET:SD	2.29	0.72
1:A:404:LYS:HE2	1:A:408:ASP:OD1	1.92	0.69
1:A:379:LEU:HD21	1:A:435:LEU:HD11	1.74	0.68
1:A:262:ILE:O	1:A:264:PHE:N	2.29	0.66
1:A:258:GLY:O	1:A:260:ASP:N	2.29	0.65
1:A:262:ILE:HG22	1:A:264:PHE:H	1.64	0.63
1:A:448:GLU:HG2	4:A:115:HOH:O	1.98	0.63
1:A:357:ARG:NH2	1:A:460:GLU:OE1	2.33	0.61
1:A:271:GLN:C	1:A:273:GLN:H	2.03	0.60
1:A:324:GLU:OE2	1:A:443:ARG:HD2	2.00	0.60
1:A:419:LEU:O	1:A:423:LEU:HD13	2.02	0.60
1:A:261:LYS:HD3	1:A:262:ILE:N	2.18	0.58
1:A:474:LYS:HG3	1:A:475:ASP:N	2.19	0.57
1:A:273:GLN:OE1	1:A:273:GLN:HA	2.05	0.57
1:A:450:VAL:O	1:A:454:GLN:HG2	2.05	0.56
1:A:247:PHE:CE2	1:A:258:GLY:HA3	2.39	0.56
1:A:325:ILE:HD11	1:A:392:ILE:HG13	1.87	0.56
1:A:325:ILE:HD11	1:A:392:ILE:CG1	2.36	0.56
1:A:341:ILE:HG22	3:A:503:BRL:H152	1.87	0.56
1:A:452:LEU:O	1:A:456:ILE:HG13	2.06	0.56
1:A:262:ILE:C	1:A:264:PHE:N	2.59	0.56
1:A:261:LYS:HA	4:A:135:HOH:O	2.06	0.54
1:A:287:PHE:O	1:A:291:GLU:HG3	2.08	0.54
1:A:273:GLN:C	1:A:275:LYS:H	2.11	0.54
1:A:357:ARG:HG2	1:A:358:LYS:N	2.20	0.54
1:A:276:GLU:HG2	1:A:279:ILE:HG12	1.89	0.53
1:A:262:ILE:O	1:A:263:LYS:C	2.46	0.53
1:A:360:PHE:O	1:A:363:PHE:HD1	1.92	0.52
1:A:297:THR:HG21	2:B:124:ILE:HG22	1.91	0.52
1:A:244:LYS:O	1:A:245:SER:HB2	2.11	0.51
1:A:246:PRO:HB3	1:A:344:GLY:O	2.09	0.51
1:A:476:LEU:HG	1:A:477:TYR:CD1	2.47	0.50
1:A:263:LYS:N	1:A:263:LYS:HD2	2.26	0.50
1:A:460:GLU:C	1:A:462:ASP:H	2.15	0.50
1:A:271:GLN:C	1:A:273:GLN:N	2.65	0.49
1:A:261:LYS:O	1:A:262:ILE:C	2.51	0.49
1:A:473:TYR:O	1:A:474:LYS:C	2.51	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:322:VAL:O	1:A:326:ILE:HG13	2.13	0.49
1:A:465:LEU:HD21	1:A:473:TYR:HD2	1.78	0.48
1:A:364:MET:SD	3:A:503:BRL:H11	2.53	0.48
1:A:360:PHE:O	1:A:363:PHE:CD1	2.67	0.48
1:A:273:GLN:O	1:A:274:SER:HB3	2.14	0.47
1:A:359:PRO:HG2	1:A:456:ILE:HG12	1.97	0.47
1:A:259:GLU:C	1:A:261:LYS:H	2.18	0.47
1:A:241:THR:O	1:A:243:ASP:N	2.48	0.46
1:A:270:LEU:CD2	1:A:273:GLN:HG2	2.45	0.46
1:A:456:ILE:O	1:A:460:GLU:HG2	2.15	0.46
1:A:454:GLN:O	1:A:458:LYS:HG2	2.16	0.46
1:A:444:GLN:HE21	1:A:444:GLN:HB3	1.55	0.46
1:A:241:THR:C	1:A:243:ASP:N	2.70	0.46
1:A:404:LYS:HB3	1:A:405:PRO:HD3	1.98	0.45
2:B:124:ILE:O	2:B:127:GLU:HG2	2.16	0.45
1:A:263:LYS:HD2	1:A:264:PHE:H	1.82	0.45
1:A:379:LEU:N	1:A:379:LEU:HD12	2.32	0.45
1:A:436:LEU:O	1:A:439:MET:HB2	2.17	0.45
1:A:255:LEU:CD2	1:A:277:VAL:HG13	2.47	0.44
1:A:402:ASN:O	1:A:405:PRO:HD2	2.18	0.44
1:A:354:LYS:HA	1:A:361:GLY:O	2.17	0.44
1:A:247:PHE:CD2	1:A:258:GLY:HA3	2.53	0.44
1:A:241:THR:O	1:A:242:THR:HG22	2.17	0.44
1:A:264:PHE:HD1	1:A:264:PHE:HA	1.62	0.44
1:A:425:HIS:N	1:A:426:PRO:HD3	2.32	0.44
1:A:258:GLY:C	1:A:260:ASP:N	2.71	0.44
1:A:460:GLU:HB2	1:A:463:MET:HG2	1.99	0.44
1:A:473:TYR:O	1:A:474:LYS:O	2.35	0.44
1:A:270:LEU:C	1:A:272:GLU:H	2.21	0.43
1:A:262:ILE:HG22	1:A:264:PHE:N	2.30	0.43
1:A:404:LYS:HE2	1:A:408:ASP:CG	2.39	0.42
1:A:241:THR:C	1:A:243:ASP:H	2.22	0.42
1:A:241:THR:OG1	1:A:242:THR:N	2.52	0.42
1:A:454:GLN:HA	1:A:454:GLN:OE1	2.19	0.42
1:A:255:LEU:HD21	1:A:277:VAL:HG13	2.01	0.42
1:A:264:PHE:HE2	1:A:270:LEU:HA	1.84	0.42
1:A:313:ASP:O	1:A:317:LEU:HG	2.19	0.42
1:A:423:LEU:CD1	1:A:423:LEU:N	2.82	0.42
1:A:260:ASP:O	1:A:262:ILE:N	2.47	0.42
1:A:418:GLU:HG2	1:A:422:LYS:HE3	2.01	0.42
1:A:363:PHE:HD1	1:A:363:PHE:H	1.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:239:GLY:O	1:A:240:LYS:CB	2.68	0.41
1:A:276:GLU:CG	1:A:279:ILE:HG12	2.49	0.41
1:A:263:LYS:N	1:A:263:LYS:CD	2.84	0.41
1:A:286:GLN:HG2	1:A:469:LEU:CD1	2.51	0.41
1:A:266:HIS:CD2	1:A:266:HIS:C	2.95	0.40
1:A:261:LYS:C	1:A:261:LYS:HD3	2.41	0.40

All (5) 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	Interatomic distance (Å)	Clash overlap (Å)
1:A:250:TYR:OH	1:A:267:ILE:CD1[4_556]	0.87	1.33
1:A:250:TYR:CZ	1:A:267:ILE:CD1[4_556]	1.64	0.56
1:A:451:GLN:NE2	1:A:455:VAL:CG1[2_656]	1.71	0.49
1:A:250:TYR:CE2	1:A:267:ILE:CG2[4_556]	1.98	0.22
4:A:64:HOH:O	4:A:64:HOH:O[2_656]	2.00	0.20

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	270/272 (99%)	241 (89%)	17 (6%)	12 (4%)	3	0
2	B	10/17 (59%)	10 (100%)	0	0	100	100
All	All	280/289 (97%)	251 (90%)	17 (6%)	12 (4%)	3	0

All (12) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	240	LYS
1	A	264	PHE
1	A	270	LEU

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Mol	Chain	Res	Type
1	A	429	SER
1	A	474	LYS
1	A	242	THR
1	A	244	LYS
1	A	263	LYS
1	A	269	PRO
1	A	271	GLN
1	A	464	SER
1	A	268	THR

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	245/245 (100%)	230 (94%)	15 (6%)	23	8
2	B	12/16 (75%)	12 (100%)	0	100	100
All	All	257/261 (98%)	242 (94%)	15 (6%)	25	9

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

Mol	Chain	Res	Type
1	A	207	GLU
1	A	241	THR
1	A	259	GLU
1	A	263	LYS
1	A	264	PHE
1	A	266	HIS
1	A	272	GLU
1	A	357	ARG
1	A	431	LEU
1	A	439	MET
1	A	443	ARG
1	A	444	GLN
1	A	457	LYS
1	A	458	LYS

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Mol	Chain	Res	Type
1	A	459	THR

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	253	ASN
1	A	308	ASN
1	A	437	GLN
1	A	444	GLN
1	A	451	GLN
1	A	470	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](#)

1 ligand is 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	$\# Z > 2$
3	BRL	A	503	-	26,27,27	2.67	15 (57%)	31,36,36	2.71	11 (35%)

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
3	BRL	A	503	-	-	0/14/26/26	0/3/3/3

All (15) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	503	BRL	C2-N3	-2.55	1.34	1.37
3	A	503	BRL	C15-N16	2.04	1.53	1.46
3	A	503	BRL	C2-S1	2.05	1.77	1.76
3	A	503	BRL	O13-C10	2.17	1.42	1.37
3	A	503	BRL	C6-C7	2.25	1.56	1.51
3	A	503	BRL	C9-C8	2.33	1.43	1.38
3	A	503	BRL	C11-C10	2.41	1.43	1.38
3	A	503	BRL	C6-C5	2.95	1.65	1.51
3	A	503	BRL	C8-C7	3.08	1.45	1.38
3	A	503	BRL	C12-C7	3.22	1.45	1.38
3	A	503	BRL	C16-N16	3.37	1.51	1.46
3	A	503	BRL	C22-C17	3.54	1.48	1.39
3	A	503	BRL	C17-N18	3.62	1.42	1.34
3	A	503	BRL	C9-C10	4.32	1.47	1.38
3	A	503	BRL	C5-C4	6.95	1.57	1.52

All (11) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	503	BRL	C4-N3-C2	-8.24	112.69	118.32
3	A	503	BRL	C4-C5-S1	-3.79	102.31	105.89
3	A	503	BRL	O4-C4-N3	-3.32	120.81	124.83
3	A	503	BRL	O2-C2-N3	-3.28	122.00	125.72
3	A	503	BRL	C22-C17-N18	-3.12	117.41	123.17
3	A	503	BRL	O2-C2-S1	-2.21	122.55	124.68
3	A	503	BRL	C6-C5-S1	-2.05	110.85	113.00
3	A	503	BRL	C6-C5-C4	2.71	114.38	111.03
3	A	503	BRL	C19-N18-C17	3.31	121.20	116.92
3	A	503	BRL	C5-C4-N3	5.18	116.83	111.96
3	A	503	BRL	S1-C2-N3	6.82	115.40	110.38

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

1 monomer is involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	503	BRL	2	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	272/272 (100%)	1.01	37 (13%) 4 3	23, 36, 109, 199	0
2	B	12/17 (70%)	1.01	3 (25%) 1 0	27, 35, 62, 65	0
All	All	284/289 (98%)	1.01	40 (14%) 4 3	23, 36, 83, 199	0

All (40) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	264	PHE	24.2
1	A	262	ILE	23.3
1	A	263	LYS	10.8
1	A	267	ILE	9.7
1	A	268	THR	8.5
1	A	274	SER	8.2
1	A	261	LYS	7.9
1	A	242	THR	7.6
1	A	455	VAL	7.2
1	A	429	SER	7.0
1	A	459	THR	6.3
1	A	265	LYS	6.0
1	A	270	LEU	5.9
1	A	461	THR	5.7
1	A	241	THR	5.4
1	A	271	GLN	5.4
2	B	118	PRO	5.1
2	B	129	PRO	5.0
1	A	272	GLU	4.9
1	A	266	HIS	4.8
1	A	273	GLN	4.2
1	A	243	ASP	4.1
1	A	458	LYS	4.1
1	A	260	ASP	3.9

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Mol	Chain	Res	Type	RSRZ
1	A	452	LEU	3.7
1	A	206	PRO	3.5
1	A	462	ASP	3.5
1	A	450	VAL	3.4
1	A	430	GLN	3.2
1	A	239	GLY	3.1
1	A	363	PHE	3.1
1	A	457	LYS	3.0
2	B	128	GLU	2.8
1	A	474	LYS	2.7
1	A	244	LYS	2.7
1	A	269	PRO	2.7
1	A	326	ILE	2.6
1	A	240	LYS	2.3
1	A	456	ILE	2.1
1	A	207	GLU	2.1

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 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
3	BRL	A	503	25/25	0.84	0.23	2.13	38,44,51,52	0

6.5 Other polymers [i](#)

There are no such residues in this entry.