



Full wwPDB X-ray Structure Validation Report ⓘ

Jan 31, 2016 – 11:52 PM GMT

PDB ID : 1YP0
Title : Structure of the steroidogenic factor-1 ligand binding domain bound to phospholipid and a SHP peptide motif
Authors : Li, Y.; Choi, M.; Cavey, G.; Daugherty, J.; Suino, K.; Kovach, A.; Bingham, N.; Kliewer, S.; Xu, H.
Deposited on : 2005-01-28
Resolution : 1.50 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

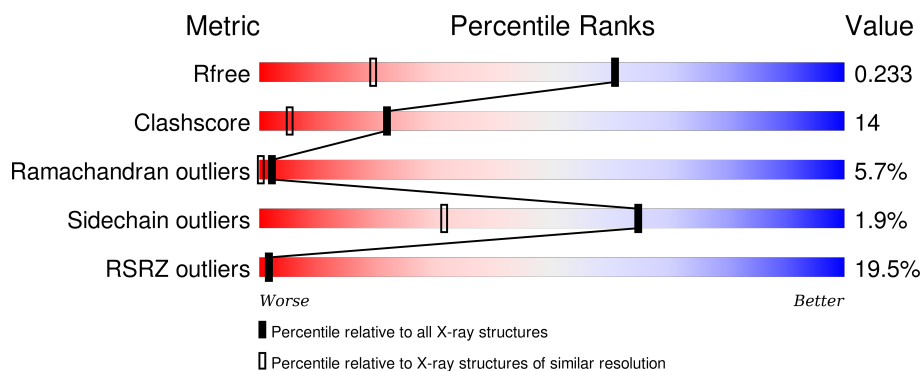
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.50 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	2072 (1.50-1.50)
Clashscore	102246	2274 (1.50-1.50)
Ramachandran outliers	100387	2218 (1.50-1.50)
Sidechain outliers	100360	2216 (1.50-1.50)
RSRZ outliers	91569	2075 (1.50-1.50)

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	239	<div> <div>19%</div> <div>75%</div> <div>21%</div> <div>.</div> </div>
2	B	12	<div> <div>33%</div> <div>33%</div> <div>50%</div> <div>17%</div> </div>

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	PEF	A	201	-	-	-	X

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 2218 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.

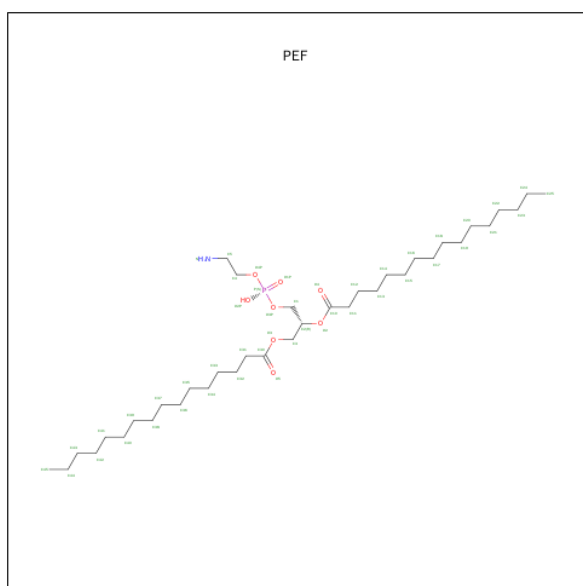
- Molecule 1 is a protein called nuclear receptor subfamily 5, group A, member 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	239	Total	C	N	O	S	0	0	0
			1885	1201	325	345	14			

- 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
			90	59	14	17			

- Molecule 3 is DI-PALMITOYL-3-SN-PHOSPHATIDYLETHANOLAMINE (three-letter code: PEF) (formula: $C_{37}H_{74}NO_8P$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	A	1	Total	C	N	O	P	0	0
			47	37	1	8	1		

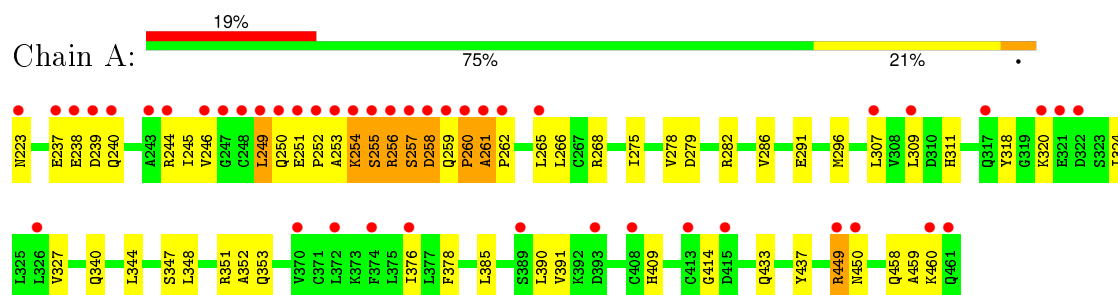
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	186	Total 186	O 186	0	0
4	B	10	Total 10	O 10	0	0

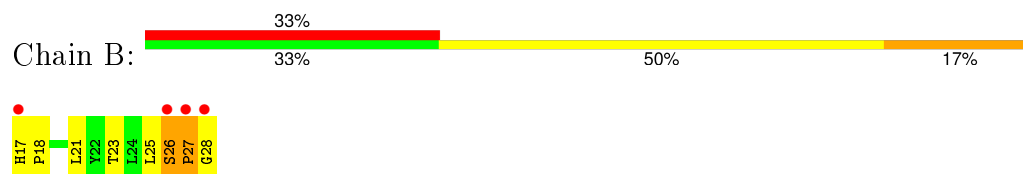
3 Residue-property plots [i](#)

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: nuclear receptor subfamily 5, group A, member 1



- Molecule 2: Nuclear receptor subfamily 0, group B, member 2



4 Data and refinement statistics

Property	Value	Source
Space group	P 41 21 2	Depositor
Cell constants a, b, c, α , β , γ	73.17Å 73.17Å 115.73Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	10.00 – 1.50 28.93 – 1.50	Depositor EDS
% Data completeness (in resolution range)	99.8 (10.00-1.50) 99.9 (28.93-1.50)	Depositor EDS
R_{merge}	0.12	Depositor
R_{sym}	0.12	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.68 (at 1.50Å)	Xtriage
Refinement program	CNS 1.1	Depositor
R, R_{free}	0.223 , 0.231 0.223 , 0.233	Depositor DCC
R_{free} test set	4116 reflections (8.11%)	DCC
Wilson B-factor (Å ²)	20.1	Xtriage
Anisotropy	0.013	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.41 , 49.0	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 51017 reflections	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	2218	wwPDB-VP
Average B, all atoms (Å ²)	29.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.28% 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 [i](#)

5.1 Standard geometry [i](#)

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

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	0.34	0/1915	0.56	1/2586 (0.0%)
2	B	0.33	0/92	0.58	0/124
All	All	0.34	0/2007	0.56	1/2710 (0.0%)

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	259	GLN	N-CA-C	5.17	124.97	111.00

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	1885	0	1890	53	5
2	B	90	0	88	5	0
3	A	47	0	73	4	0
4	A	186	0	0	5	2
4	B	10	0	0	1	0
All	All	2218	0	2051	57	7

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 14.

All (57) 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:260:PRO:O	1:A:340:GLN:NE2	1.90	1.04
1:A:246:VAL:O	1:A:249:LEU:O	1.96	0.84
1:A:237:GLU:H	1:A:237:GLU:CD	1.91	0.73
1:A:279:ASP:HB3	4:A:159:HOH:O	1.91	0.70
1:A:254:LYS:O	1:A:256:ARG:N	2.25	0.69
1:A:237:GLU:OE1	1:A:240:GLN:HB2	1.94	0.67
1:A:318:TYR:CZ	1:A:320:LYS:HD2	2.30	0.66
1:A:249:LEU:HD11	1:A:268:ARG:HB3	1.79	0.64
1:A:459:ALA:HA	4:A:168:HOH:O	2.00	0.62
1:A:238:GLU:H	1:A:238:GLU:CD	2.02	0.62
1:A:266:LEU:HD12	3:A:201:PEF:O4	2.01	0.60
1:A:348:LEU:HD23	1:A:351:ARG:NH1	2.16	0.60
1:A:255:SER:O	1:A:256:ARG:O	2.20	0.59
1:A:352:ALA:HB2	3:A:201:PEF:H252	1.85	0.58
1:A:260:PRO:O	1:A:261:ALA:HB3	2.04	0.58
1:A:458:GLN:O	1:A:460:LYS:HG3	2.03	0.58
1:A:260:PRO:O	1:A:261:ALA:CB	2.51	0.57
1:A:256:ARG:O	1:A:258:ASP:N	2.38	0.57
1:A:351:ARG:NH1	1:A:433:GLN:OE1	2.37	0.57
1:A:237:GLU:CD	1:A:237:GLU:N	2.57	0.56
1:A:348:LEU:HD23	1:A:351:ARG:HH12	1.70	0.55
1:A:296:MET:HG2	2:B:25:LEU:HD12	1.90	0.54
1:A:223:ASN:O	1:A:409:HIS:HE1	1.90	0.53
1:A:244:ARG:HH22	1:A:275:ILE:CG2	2.22	0.52
1:A:311:HIS:HE1	4:A:6:HOH:O	1.92	0.52
1:A:449:ARG:HD3	1:A:450:ASN:H	1.74	0.51
1:A:311:HIS:HD2	4:A:8:HOH:O	1.94	0.50
1:A:254:LYS:O	1:A:257:SER:N	2.46	0.49
2:B:17:HIS:N	2:B:18:PRO:CD	2.77	0.48
2:B:23:THR:HB	2:B:28:GLY:OXT	2.14	0.48
1:A:344:LEU:HD22	1:A:437:TYR:HB2	1.96	0.47
1:A:348:LEU:HD23	1:A:351:ARG:NH2	2.29	0.47
1:A:449:ARG:HH11	1:A:449:ARG:HG2	1.79	0.47
1:A:348:LEU:HD23	1:A:351:ARG:CZ	2.46	0.46
1:A:240:GLN:HA	1:A:240:GLN:OE1	2.16	0.45
1:A:245:ILE:HD12	1:A:327:VAL:HG21	1.97	0.45
1:A:254:LYS:O	1:A:255:SER:C	2.55	0.44
1:A:352:ALA:CB	3:A:201:PEF:H252	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:307:LEU:HB3	3:A:201:PEF:H421	2.00	0.44
1:A:309:LEU:HD22	1:A:376:ILE:HD12	2.00	0.44
1:A:255:SER:H	1:A:262:PRO:HG3	1.83	0.43
1:A:449:ARG:NH1	1:A:449:ARG:HG2	2.34	0.43
2:B:26:SER:O	2:B:27:PRO:C	2.57	0.43
1:A:286:VAL:HG13	1:A:390:LEU:HG	2.01	0.43
2:B:17:HIS:N	4:B:10:HOH:O	2.52	0.43
1:A:347:SER:CB	1:A:351:ARG:HH21	2.32	0.43
1:A:318:TYR:CE2	1:A:320:LYS:HB2	2.54	0.43
1:A:324:ILE:HD12	1:A:353:GLN:NE2	2.34	0.42
1:A:378:PHE:HD2	1:A:391:VAL:HG13	1.85	0.42
1:A:278:VAL:O	1:A:282:ARG:HG3	2.19	0.42
1:A:262:PRO:HG2	1:A:265:LEU:HB3	2.03	0.41
1:A:291:GLU:HB2	4:A:172:HOH:O	2.18	0.41
1:A:348:LEU:HD21	1:A:433:GLN:HB3	2.02	0.41
1:A:254:LYS:O	1:A:256:ARG:C	2.60	0.40
1:A:378:PHE:CD2	1:A:391:VAL:HG13	2.56	0.40
1:A:385:LEU:HD13	1:A:391:VAL:HG21	2.03	0.40
1:A:348:LEU:HD23	1:A:351:ARG:HH22	1.86	0.40

All (7) 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:460:LYS:CD	1:A:460:LYS:NZ[7_555]	1.14	1.06
4:A:169:HOH:O	4:A:191:HOH:O[7_555]	1.18	1.02
1:A:460:LYS:CG	1:A:460:LYS:NZ[7_555]	1.23	0.97
1:A:460:LYS:CE	1:A:460:LYS:NZ[7_555]	1.35	0.85
4:A:187:HOH:O	4:A:187:HOH:O[7_555]	1.71	0.49
1:A:460:LYS:CE	1:A:460:LYS:CE[7_555]	1.88	0.32
1:A:460:LYS:NZ	1:A:460:LYS:NZ[7_555]	2.01	0.19

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	237/239 (99%)	221 (93%)	4 (2%)	12 (5%)	2	0
2	B	10/12 (83%)	8 (80%)	0	2 (20%)	0	0
All	All	247/251 (98%)	229 (93%)	4 (2%)	14 (6%)	2	0

All (14) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	250	GLN
1	A	252	PRO
1	A	253	ALA
1	A	254	LYS
1	A	255	SER
1	A	256	ARG
1	A	257	SER
1	A	258	ASP
1	A	260	PRO
1	A	261	ALA
2	B	27	PRO
1	A	251	GLU
1	A	414	GLY
2	B	26	SER

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	206/216 (95%)	203 (98%)	3 (2%)	72	44
2	B	10/11 (91%)	9 (90%)	1 (10%)	9	0
All	All	216/227 (95%)	212 (98%)	4 (2%)	65	31

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

Mol	Chain	Res	Type
1	A	239	ASP
1	A	249	LEU
1	A	449	ARG
2	B	21	LEU

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	223	ASN
1	A	300	GLN
1	A	311	HIS
1	A	353	GLN
1	A	358	GLN
1	A	395	GLN
1	A	409	HIS

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	PEF	A	201	-	45,46,46	2.03	10 (22%)	46,51,51	3.42	24 (52%)

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	PEF	A	201	-	-	0/50/50/50	0/0/0/0

All (10) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	201	PEF	O2-C10	-6.55	1.14	1.34
3	A	201	PEF	O2-C2	-6.32	1.30	1.46
3	A	201	PEF	O3P-C1	-4.09	1.28	1.44
3	A	201	PEF	O3-C3	-3.85	1.36	1.45
3	A	201	PEF	C1-C2	-2.53	1.43	1.50
3	A	201	PEF	C31-C30	-2.47	1.43	1.50
3	A	201	PEF	O3-C30	-2.09	1.27	1.33
3	A	201	PEF	O4-C10	2.12	1.29	1.22
3	A	201	PEF	C14-C13	2.78	1.67	1.51
3	A	201	PEF	C3-C2	3.33	1.60	1.50

All (24) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	201	PEF	O3-C3-C2	-8.28	86.39	108.69
3	A	201	PEF	C17-C16-C15	-5.73	84.96	114.53
3	A	201	PEF	C33-C32-C31	-5.59	92.77	113.29
3	A	201	PEF	C15-C14-C13	-5.04	88.50	114.53
3	A	201	PEF	C21-C20-C19	-4.92	89.11	114.53
3	A	201	PEF	C3-C2-C1	-4.74	100.99	112.07
3	A	201	PEF	C20-C19-C18	-4.46	91.49	114.53
3	A	201	PEF	C16-C15-C14	-3.89	94.47	114.53
3	A	201	PEF	C23-C22-C21	-3.67	95.60	114.53
3	A	201	PEF	C19-C18-C17	-3.53	96.28	114.53
3	A	201	PEF	C39-C38-C37	-3.35	97.25	114.53
3	A	201	PEF	O3-C30-C31	-3.32	101.77	111.90
3	A	201	PEF	C41-C40-C39	-3.26	97.68	114.53
3	A	201	PEF	C14-C13-C12	-3.06	98.71	114.53
3	A	201	PEF	O2-C10-C11	-3.03	104.95	111.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	201	PEF	C13-C12-C11	-2.89	102.69	113.29
3	A	201	PEF	C40-C39-C38	-2.16	103.40	114.53
3	A	201	PEF	C42-C41-C40	-2.08	103.77	114.53
3	A	201	PEF	C35-C34-C33	-2.07	103.85	114.53
3	A	201	PEF	O4P-P-O1P	2.23	118.26	109.62
3	A	201	PEF	O3P-P-O1P	3.54	123.38	109.62
3	A	201	PEF	O2-C10-O4	3.87	134.06	123.67
3	A	201	PEF	O2-C2-C3	6.51	131.30	108.36
3	A	201	PEF	C2-O2-C10	9.72	141.20	117.89

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

1 monomer is involved in 4 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	201	PEF	4	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	239/239 (100%)	1.37	45 (18%) 2 2	14, 22, 68, 199	0
2	B	12/12 (100%)	1.72	4 (33%) 0 1	20, 24, 51, 52	0
All	All	251/251 (100%)	1.38	49 (19%) 1 1	14, 22, 62, 199	0

All (49) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	252	PRO	27.2
1	A	255	SER	26.0
1	A	253	ALA	22.9
1	A	256	ARG	21.8
1	A	257	SER	16.8
1	A	249	LEU	13.8
1	A	258	ASP	12.6
1	A	254	LYS	11.5
1	A	250	GLN	10.8
2	B	28	GLY	9.7
1	A	251	GLU	8.1
1	A	260	PRO	7.4
1	A	261	ALA	6.5
2	B	27	PRO	6.4
1	A	240	GLN	5.4
1	A	259	GLN	5.1
1	A	239	ASP	4.9
1	A	449	ARG	4.9
1	A	237	GLU	4.4
1	A	238	GLU	4.0
1	A	389	SER	3.7
1	A	223	ASN	3.4
1	A	460	LYS	3.4
2	B	17	HIS	3.2

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Mol	Chain	Res	Type	RSRZ
1	A	393	ASP	3.2
1	A	246	VAL	3.1
1	A	243	ALA	3.1
1	A	244	ARG	3.0
1	A	322	ASP	3.0
1	A	461	GLN	2.9
1	A	413	CYS	2.9
1	A	307	LEU	2.7
1	A	247	GLY	2.7
1	A	309	LEU	2.6
1	A	321	GLU	2.6
1	A	248	CYS	2.6
1	A	370	VAL	2.5
1	A	262	PRO	2.5
1	A	415	ASP	2.4
1	A	374	PHE	2.3
1	A	265	LEU	2.2
1	A	408	CYS	2.2
2	B	26	SER	2.2
1	A	317	GLN	2.2
1	A	376	ILE	2.1
1	A	450	ASN	2.1
1	A	326	LEU	2.1
1	A	372	LEU	2.1
1	A	320	LYS	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 ⓘ

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	PEF	A	201	47/47	0.72	0.28	5.33	31,42,47,48	0

6.5 Other polymers [i](#)

There are no such residues in this entry.