



Full wwPDB X-ray Structure Validation Report i

Apr 27, 2016 – 11:37 PM EDT

PDB ID : 5DXK
Title : Crystal Structure of the ER-alpha Ligand-binding Domain in Complex with the Cyclofenil Derivative 4,4'-(9s)-bicyclo[3.3.1]non-9-ylmethanediyl)diphenol
Authors : Nwachukwu, J.C.; Srinivasan, S.; Zheng, Y.; Wang, S.; Min, J.; Dong, C.; Liao, Z.; Cavett, V.; Nowak, J.; Houtman, R.; Carlson, K.E.; Josan, J.S.; Elemento, O.; Katzenellenbogen, J.A.; Zhou, H.B.; Nettles, K.W.
Deposited on : 2015-09-23
Resolution : 2.23 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 i symbol.

The following versions of software and data (see [references](#) ①) were used in the production of this report:

MolProbity	:	4.02b-467
Mogul	:	1.7.1 (RC1), CSD as537be (2016)
Xtriage (Phenix)	:	1.9-1692
EDS	:	rb-20027457
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)	:	rb-20027457

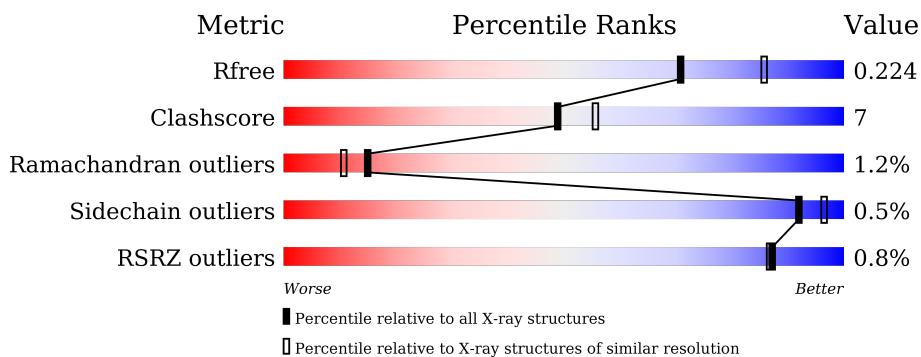
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.23 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	4405 (2.24-2.20)
Clashscore	102246	5146 (2.24-2.20)
Ramachandran outliers	100387	5065 (2.24-2.20)
Sidechain outliers	100360	5066 (2.24-2.20)
RSRZ outliers	91569	4414 (2.24-2.20)

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.



2 Entry composition i

There are 4 unique types of molecules in this entry. The entry contains 4046 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 Estrogen receptor.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	234	1827	1174	309	325	19	0	1	0
1	B	239	1874	1197	325	333	19	0	1	0

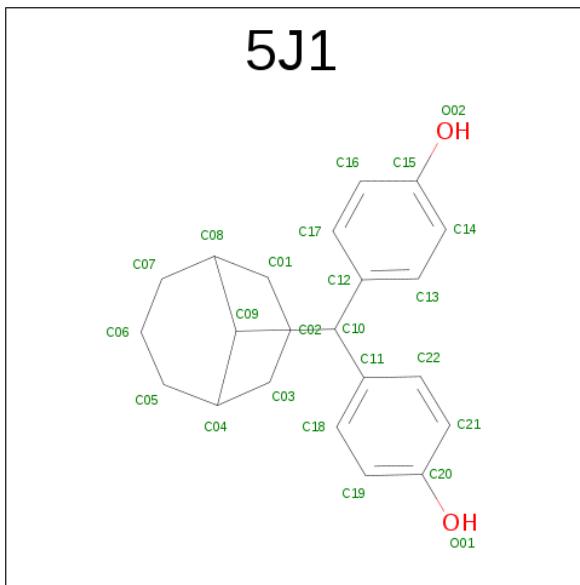
There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	537	SER	TYR	engineered mutation	UNP P03372
B	537	SER	TYR	engineered mutation	UNP P03372

- Molecule 2 is a protein called Nuclear receptor coactivator 2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O				
2	C	10	89	57	19	13		0	0	0
2	D	9	79	51	16	12		0	0	0

- Molecule 3 is 4,4'-[^{9s}]-bicyclo[3.3.1]non-9-ylmethanediyl)diphenol (three-letter code: 5J1) (formula: C₂₂H₂₆O₂).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total C O 24 22 2	0	0
3	B	1	Total C O 24 22 2	0	0

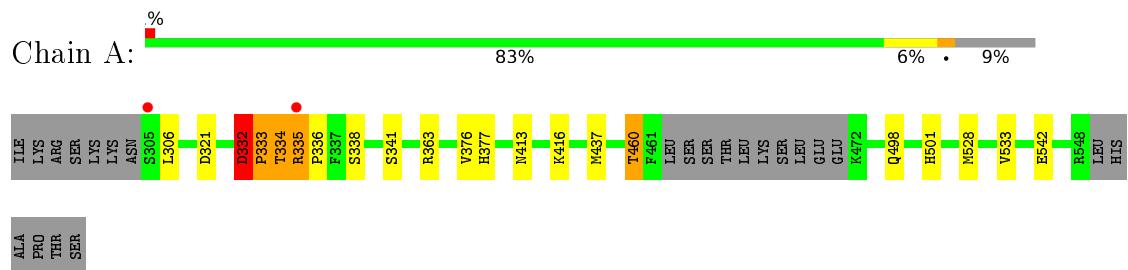
- Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	64	Total O 64 64	0	0
4	B	61	Total O 61 61	0	0
4	C	2	Total O 2 2	0	0
4	D	2	Total O 2 2	0	0

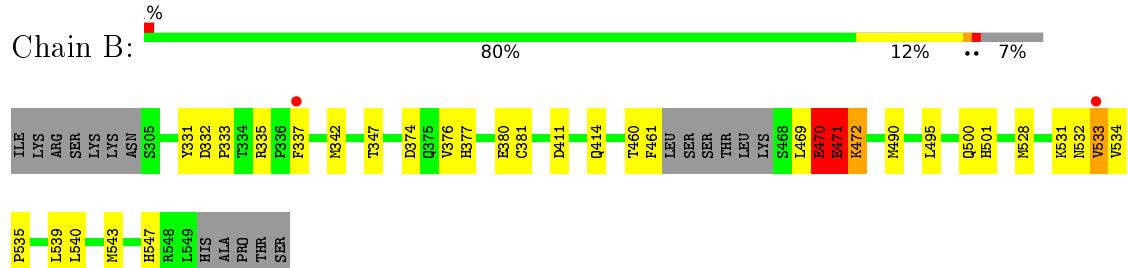
3 Residue-property plots [\(i\)](#)

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: Estrogen receptor



- Molecule 1: Estrogen receptor



- Molecule 2: Nuclear receptor coactivator 2



- Molecule 2: Nuclear receptor coactivator 2



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	54.64Å 82.54Å 58.64Å 90.00° 111.05° 90.00°	Depositor
Resolution (Å)	46.57 – 2.23 46.57 – 2.23	Depositor EDS
% Data completeness (in resolution range)	94.5 (46.57-2.23) 94.3 (46.57-2.23)	Depositor EDS
R_{merge}	0.09	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ ¹	2.98 (at 2.22Å)	Xtriage
Refinement program	PHENIX	Depositor
R , R_{free}	0.182 , 0.226 0.180 , 0.224	Depositor DCC
R_{free} test set	1924 reflections (8.54%)	DCC
Wilson B-factor (Å ²)	38.0	Xtriage
Anisotropy	0.210	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 47.3	EDS
L-test for twinning ²	$< L > = 0.49$, $< L^2 > = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	4046	wwPDB-VP
Average B, all atoms (Å ²)	53.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.13% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $< |L| >$, $< L^2 >$ 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:
5J1

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	0.29	0/1865	0.38	0/2528
1	B	0.27	0/1909	0.38	0/2585
2	C	0.24	0/90	0.36	0/119
2	D	0.18	0/79	0.32	0/104
All	All	0.28	0/3943	0.38	0/5336

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	3
1	B	0	3
All	All	0	6

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (6) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	332	ASP	Peptide
1	A	333	PRO	Peptide
1	A	334	THR	Peptide
1	B	470	GLU	Peptide
1	B	471	GLU	Peptide
1	B	532	ASN	Peptide

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	1827	0	1842	20	0
1	B	1874	0	1880	35	0
2	C	89	0	95	2	0
2	D	79	0	88	2	0
3	A	24	0	0	0	0
3	B	24	0	0	0	0
4	A	64	0	0	3	0
4	B	61	0	0	3	0
4	C	2	0	0	0	0
4	D	2	0	0	1	0
All	All	4046	0	3905	56	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 (56) 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:335:ARG:CB	1:A:336:PRO:HD3	1.76	1.15
1:B:381:CYS:SG	4:B:1056:HOH:O	2.08	1.08
1:A:335:ARG:CB	1:A:336:PRO:CD	2.41	0.98
1:B:533:VAL:HG13	1:B:534:VAL:H	1.25	0.97
1:B:470:GLU:HA	1:B:472:LYS:N	1.96	0.80
1:A:542:GLU:OE1	4:A:1001:HOH:O	2.01	0.78
1:B:335[B]:ARG:HH21	1:B:337:PHE:HA	1.50	0.77
1:B:533:VAL:HG13	1:B:534:VAL:N	2.01	0.76
1:B:528:MET:HG2	1:B:533:VAL:HG11	1.66	0.76
1:A:332:ASP:HB3	1:A:333:PRO:HA	1.68	0.74
1:A:332:ASP:HB3	1:A:333:PRO:CA	2.16	0.73
1:B:461:PHE:HB2	1:B:472:LYS:HE3	1.74	0.68
1:B:528:MET:O	1:B:533:VAL:HG12	1.94	0.67
1:B:500:GLN:OE1	4:B:1002:HOH:O	2.12	0.66
1:B:534:VAL:HG23	1:B:535:PRO:HD2	1.77	0.65
1:A:332:ASP:CB	1:A:333:PRO:HA	2.26	0.65
1:B:528:MET:HG2	1:B:533:VAL:CG1	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:528:MET:HG3	1:A:533:VAL:HB	1.79	0.64
1:B:460:THR:O	1:B:460:THR:HG22	1.99	0.62
1:B:377:HIS:NE2	1:B:460:THR:HB	2.18	0.59
1:B:534:VAL:CG2	1:B:535:PRO:HD2	2.32	0.59
1:B:533:VAL:CG1	1:B:534:VAL:H	2.09	0.59
1:B:528:MET:CG	1:B:533:VAL:HG11	2.33	0.59
1:B:470:GLU:CA	1:B:471:GLU:HB3	2.33	0.58
1:B:332:ASP:OD2	1:B:335[A]:ARG:NH1	2.37	0.57
1:A:377:HIS:NE2	1:A:460:THR:HB	2.20	0.57
1:A:332:ASP:CB	1:A:333:PRO:CA	2.83	0.57
1:A:498:GLN:HA	1:A:501[B]:HIS:CE1	2.40	0.56
1:A:376:VAL:HG13	2:C:690:LEU:HD23	1.88	0.56
1:A:437:MET:HG2	4:A:1004:HOH:O	2.06	0.55
1:B:470:GLU:N	1:B:471:GLU:HB3	2.22	0.55
1:B:470:GLU:CA	1:B:471:GLU:CB	2.86	0.54
1:A:333:PRO:O	1:A:334:THR:OG1	2.24	0.53
1:B:411:ASP:OD1	1:B:414:GLN:NE2	2.43	0.52
1:B:347:THR:HG23	1:B:540:LEU:HD23	1.91	0.52
1:A:332:ASP:OD1	1:A:334:THR:HG23	2.12	0.50
1:B:411:ASP:H	1:B:414:GLN:NE2	2.10	0.49
1:B:470:GLU:HA	1:B:471:GLU:HB3	1.93	0.49
1:B:490:MET:HB3	1:B:495:LEU:HD22	1.95	0.48
1:B:374:ASP:OD2	4:B:1003:HOH:O	2.20	0.47
1:B:411:ASP:H	1:B:414:GLN:HE21	1.65	0.45
1:B:469:LEU:O	1:B:470:GLU:CB	2.65	0.44
2:D:688:LYS:N	4:D:701:HOH:O	2.50	0.44
1:A:332:ASP:CG	1:A:333:PRO:HA	2.37	0.44
1:A:413:ASN:HA	1:A:416:LYS:HZ3	1.82	0.43
1:B:380:GLU:O	1:B:547:HIS:NE2	2.52	0.43
1:A:321:ASP:OD2	1:A:363:ARG:NH2	2.52	0.43
1:B:376:VAL:HG13	2:D:690:LEU:HD23	2.00	0.43
1:B:331:TYR:CZ	1:B:333:PRO:HA	2.54	0.42
1:B:342:MET:HE1	1:B:414:GLN:O	2.19	0.42
1:A:332:ASP:OD1	1:A:333:PRO:HA	2.20	0.42
1:A:376:VAL:HG21	2:C:691:HIS:CD2	2.55	0.42
1:A:338:SER:H	1:A:341:SER:HB3	1.85	0.42
1:B:531:LYS:C	1:B:533:VAL:H	2.24	0.41
1:B:539:LEU:O	1:B:543:MET:HG2	2.21	0.41
4:A:1031:HOH:O	1:B:501:HIS:HB2	2.21	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	231/257 (90%)	226 (98%)	3 (1%)	2 (1%)	21 18
1	B	236/257 (92%)	227 (96%)	5 (2%)	4 (2%)	11 7
2	C	8/14 (57%)	8 (100%)	0	0	100 100
2	D	7/14 (50%)	6 (86%)	1 (14%)	0	100 100
All	All	482/542 (89%)	467 (97%)	9 (2%)	6 (1%)	15 12

All (6) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	332	ASP
1	A	335	ARG
1	B	533	VAL
1	B	470	GLU
1	B	471	GLU
1	B	472	LYS

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	201/232 (87%)	199 (99%)	2 (1%)	82 90
1	B	204/232 (88%)	204 (100%)	0	100 100
2	C	10/14 (71%)	10 (100%)	0	100 100
2	D	9/14 (64%)	9 (100%)	0	100 100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
All	All	424/492 (86%)	422 (100%)	2 (0%)	92 96

All (2) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	306	LEU
1	A	460	THR

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (3) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	502	GLN
1	B	414	GLN
2	D	691	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 [\(i\)](#)

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
3	5J1	A	900	-	26,27,27	3.54	9 (34%)	34,38,38	2.44	15 (44%)
3	5J1	B	901	-	26,27,27	3.61	10 (38%)	34,38,38	2.48	13 (38%)

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	5J1	A	900	-	-	0/12/32/32	0/2/4/4
3	5J1	B	901	-	-	0/12/32/32	0/2/4/4

All (19) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	901	5J1	C12-C10	-12.23	1.36	1.52
3	A	900	5J1	C11-C10	-12.04	1.37	1.52
3	B	901	5J1	C11-C10	-11.63	1.37	1.52
3	A	900	5J1	C12-C10	-11.26	1.38	1.52
3	B	901	5J1	C16-C15	-2.27	1.34	1.38
3	A	900	5J1	C16-C15	-2.20	1.34	1.38
3	B	901	5J1	C17-C16	-2.19	1.34	1.38
3	A	900	5J1	C21-C20	-2.18	1.34	1.38
3	B	901	5J1	C17-C12	-2.14	1.35	1.39
3	B	901	5J1	C21-C20	-2.14	1.34	1.38
3	A	900	5J1	C21-C22	-2.13	1.34	1.38
3	B	901	5J1	C19-C20	-2.11	1.34	1.38
3	A	900	5J1	C14-C15	-2.11	1.34	1.38
3	A	900	5J1	C17-C16	-2.09	1.34	1.38
3	B	901	5J1	C13-C12	-2.09	1.35	1.39
3	A	900	5J1	C22-C11	-2.09	1.35	1.39
3	B	901	5J1	C14-C15	-2.03	1.34	1.38
3	A	900	5J1	C17-C12	-2.02	1.35	1.39
3	B	901	5J1	C22-C11	-2.01	1.35	1.39

All (28) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	900	5J1	C17-C12-C13	-3.49	113.89	118.30
3	B	901	5J1	C18-C11-C22	-3.34	114.07	118.30
3	A	900	5J1	C18-C11-C22	-2.78	114.78	118.30
3	A	900	5J1	C08-C09-C04	-2.76	105.64	110.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	B	901	5J1	C08-C09-C04	-2.75	105.67	110.52
3	B	901	5J1	C17-C12-C13	-2.60	115.01	118.30
3	B	901	5J1	C19-C20-C21	-2.15	116.83	119.78
3	A	900	5J1	C01-C08-C09	-2.13	107.80	110.64
3	A	900	5J1	C16-C15-C14	-2.08	116.93	119.78
3	A	900	5J1	C19-C20-C21	-2.04	116.98	119.78
3	B	901	5J1	C21-C22-C11	2.03	123.30	121.20
3	B	901	5J1	C22-C11-C10	2.06	125.40	121.11
3	A	900	5J1	C11-C10-C12	2.09	115.46	111.38
3	A	900	5J1	C06-C05-C04	2.11	115.19	111.91
3	B	901	5J1	C06-C05-C04	2.13	115.22	111.91
3	A	900	5J1	C02-C01-C08	2.21	115.36	111.91
3	B	901	5J1	C02-C01-C08	2.22	115.37	111.91
3	A	900	5J1	C16-C17-C12	2.37	123.65	121.20
3	B	901	5J1	C03-C04-C09	2.39	113.82	110.64
3	A	900	5J1	C07-C08-C09	2.44	113.88	110.64
3	A	900	5J1	C06-C07-C08	3.03	116.63	111.91
3	B	901	5J1	C02-C03-C04	3.13	116.79	111.91
3	B	901	5J1	C06-C07-C08	3.42	117.23	111.91
3	A	900	5J1	C02-C03-C04	3.52	117.39	111.91
3	A	900	5J1	C11-C10-C09	4.41	119.06	113.51
3	B	901	5J1	C12-C10-C09	4.67	119.38	113.51
3	A	900	5J1	C12-C10-C09	8.44	124.14	113.51
3	B	901	5J1	C11-C10-C09	8.91	124.72	113.51

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	234/257 (91%)	-0.38	2 (0%)	85 85	28, 46, 79, 99	0
1	B	239/257 (92%)	-0.25	2 (0%)	87 87	29, 52, 93, 111	0
2	C	10/14 (71%)	-0.07	0 100 100	100 100	52, 64, 82, 90	0
2	D	9/14 (64%)	0.43	0 100 100	100 100	58, 73, 95, 104	0
All	All	492/542 (90%)	-0.30	4 (0%)	87 87	28, 51, 89, 111	0

All (4) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	305	SER	6.1
1	B	337	PHE	4.4
1	B	533	VAL	3.4
1	A	335	ARG	2.5

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(Å ²)	Q<0.9
3	5J1	B	901	24/24	0.92	0.17	0.98	39,43,46,48	0
3	5J1	A	900	24/24	0.95	0.10	-0.57	30,34,37,38	0

6.5 Other polymers [\(i\)](#)

There are no such residues in this entry.