



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 8, 2026 – 12:16 PM UTC

PDB ID : 6MOH / pdb_00006moh
Title : Dimeric DARPin C_R3 complex with EpoR
Authors : Jude, K.M.; Mohan, K.; Garcia, K.C.
Deposited on : 2018-10-04
Resolution : 3.20 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
Mogul	:	2022.3.0, CSD as543be (2022)
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

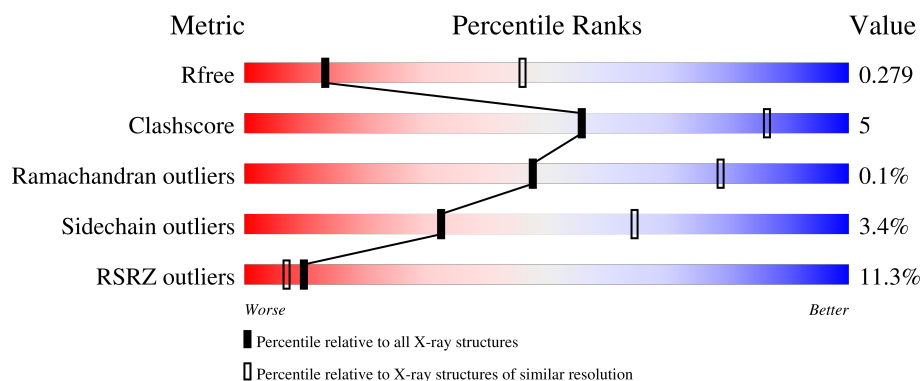
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.20 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	1466 (3.20-3.20)
Clashscore	190562	1573 (3.20-3.20)
Ramachandran outliers	187476	1548 (3.20-3.20)
Sidechain outliers	187428	1547 (3.20-3.20)
RSRZ outliers	180081	1466 (3.20-3.20)

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 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	165	4% 84% 10% 6%
1	B	165	4% 78% 15% 6%
2	C	229	17% 77% 11% 11%
2	D	229	14% 77% 14% 8%

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 5510 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 Dimeric DARPin E2C (C_R3).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	155	Total	C	N	O	S	0	0	0
			1139	717	200	219	3			
1	B	155	Total	C	N	O	S	0	0	0
			1127	709	198	217	3			

- Molecule 2 is a protein called Erythropoietin receptor.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	C	203	Total	C	N	O	S	0	0	0
			1583	1011	274	291	7			
2	D	211	Total	C	N	O	S	0	0	0
			1619	1033	279	300	7			

There are 26 discrepancies between the modelled and reference sequences:

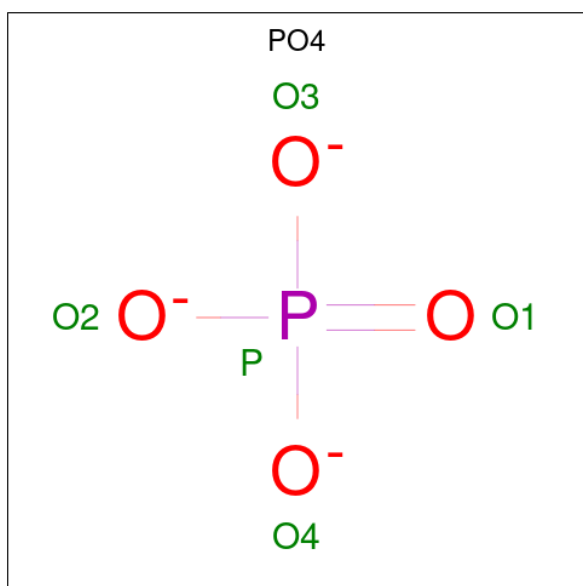
Chain	Residue	Modelled	Actual	Comment	Reference
C	3	PHE	-	expression tag	UNP P19235
C	4	ALA	-	expression tag	UNP P19235
C	5	GLY	-	expression tag	UNP P19235
C	6	SER	-	expression tag	UNP P19235
C	7	ALA	-	expression tag	UNP P19235
C	52	GLN	ASN	conflict	UNP P19235
C	164	GLN	ASN	conflict	UNP P19235
C	226	LYS	-	expression tag	UNP P19235
C	227	GLU	-	expression tag	UNP P19235
C	228	LYS	-	expression tag	UNP P19235
C	229	ALA	-	expression tag	UNP P19235
C	230	ALA	-	expression tag	UNP P19235
C	231	ALA	-	expression tag	UNP P19235
D	3	PHE	-	expression tag	UNP P19235
D	4	ALA	-	expression tag	UNP P19235
D	5	GLY	-	expression tag	UNP P19235

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Chain	Residue	Modelled	Actual	Comment	Reference
D	6	SER	-	expression tag	UNP P19235
D	7	ALA	-	expression tag	UNP P19235
D	52	GLN	ASN	conflict	UNP P19235
D	164	GLN	ASN	conflict	UNP P19235
D	226	LYS	-	expression tag	UNP P19235
D	227	GLU	-	expression tag	UNP P19235
D	228	LYS	-	expression tag	UNP P19235
D	229	ALA	-	expression tag	UNP P19235
D	230	ALA	-	expression tag	UNP P19235
D	231	ALA	-	expression tag	UNP P19235

- Molecule 3 is PHOSPHATE ION (CCD ID: PO4) (formula: O₄P).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total O P 5 4 1	0	0
3	A	1	Total O P 5 4 1	0	0
3	A	1	Total O P 5 4 1	0	0
3	B	1	Total O P 5 4 1	0	0
3	B	1	Total O P 5 4 1	0	0
3	B	1	Total O P 5 4 1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	C	1	Total	O	P	0	0
			5	4	1		

- Molecule 4 is SODIUM ION (CCD ID: NA) (formula: Na).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	1	Total	Na	0	0
			1	1		

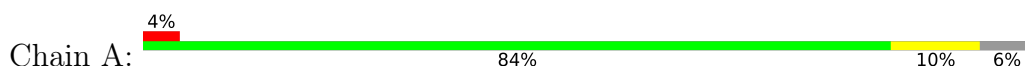
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	1	Total	O	0	0
			1	1		
5	B	4	Total	O	0	0
			4	4		
5	C	1	Total	O	0	0
			1	1		

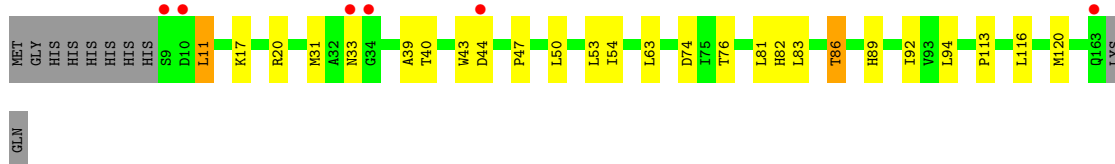
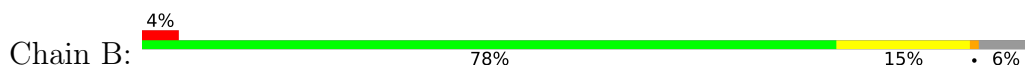
3 Residue-property plots [i](#)

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.

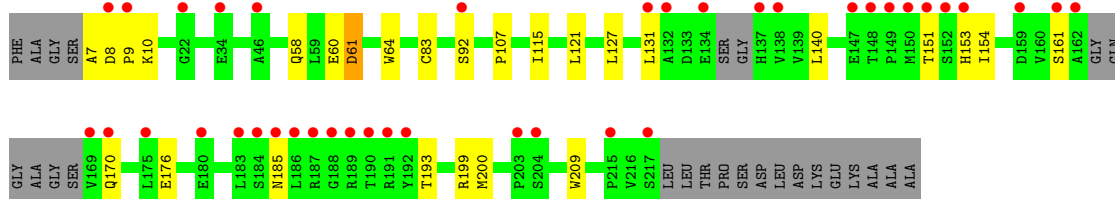
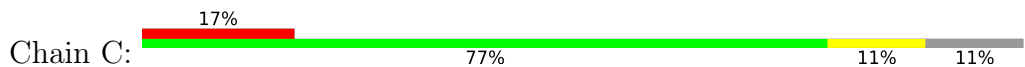
- Molecule 1: Dimeric DARPin E2C (C_R3)



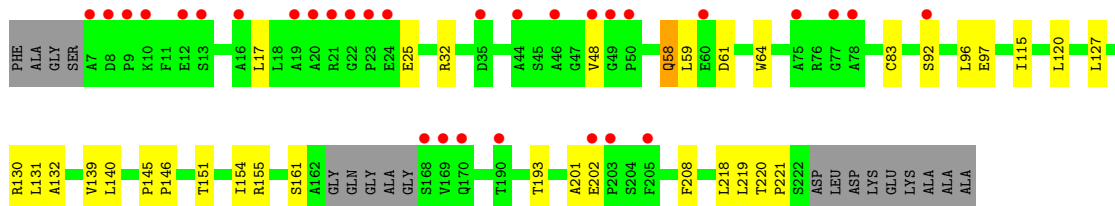
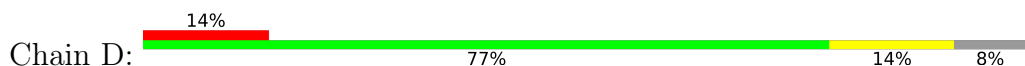
- Molecule 1: Dimeric DARPin E2C (C_R3)



- Molecule 2: Erythropoietin receptor



- Molecule 2: Erythropoietin receptor



4 Data and refinement statistics

Property	Value	Source
Space group	P 43 21 2	Depositor
Cell constants a, b, c, α , β , γ	96.19Å 96.19Å 286.40Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	68.02 – 3.20 68.02 – 3.20	Depositor EDS
% Data completeness (in resolution range)	80.0 (68.02-3.20) 80.0 (68.02-3.20)	Depositor EDS
R_{merge}	0.89	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.38 (at 3.19Å)	Xtriage
Refinement program	PHENIX (1.13_2998: ???)	Depositor
R, R_{free}	0.236 , 0.277 0.235 , 0.279	Depositor DCC
R_{free} test set	891 reflections (3.89%)	wwPDB-VP
Wilson B-factor (Å ²)	29.7	Xtriage
Anisotropy	0.184	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 41.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.45$, $\langle L^2 \rangle = 0.27$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.86	EDS
Total number of atoms	5510	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 4.74% 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 [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: PO4, NA

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	0.10	0/1152	0.26	0/1566
1	B	0.09	0/1140	0.24	0/1553
2	C	0.13	0/1625	0.41	0/2217
2	D	0.13	0/1664	0.38	0/2276
All	All	0.12	0/5581	0.35	0/7612

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 [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	1139	0	1162	9	0
1	B	1127	0	1136	16	0
2	C	1583	0	1533	16	0
2	D	1619	0	1552	14	0
3	A	15	0	0	0	0
3	B	15	0	0	1	0
3	C	5	0	0	0	0
4	A	1	0	0	0	0
5	A	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	B	4	0	0	0	0
5	C	1	0	0	0	0
All	All	5510	0	5383	51	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 5.

All (51) 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:20:ARG:HB2	1:B:50:LEU:HD23	1.69	0.74
1:B:31:MET:HE1	1:B:63:LEU:HD23	1.76	0.66
1:B:40:THR:HB	1:B:44:ASP:HA	1.78	0.66
2:D:130:ARG:NH2	2:D:131:LEU:O	2.31	0.63
1:A:31:MET:HE2	1:A:66:ASN:HB3	1.84	0.59
1:A:48:LEU:HD21	1:A:96:LEU:HD21	1.85	0.57
2:C:61:ASP:OD1	2:C:61:ASP:N	2.38	0.57
2:C:7:ALA:HA	2:C:10:LYS:HE3	1.87	0.56
2:D:92:SER:HA	2:D:115:ILE:HB	1.87	0.56
1:A:124:ARG:NH2	3:B:203:PO4:O1	2.39	0.56
2:C:92:SER:HA	2:C:115:ILE:HB	1.87	0.55
1:B:89:HIS:HB3	1:B:92:ILE:HD13	1.90	0.54
2:C:151:THR:HA	2:C:154:ILE:HD12	1.91	0.53
2:C:8:ASP:H	2:C:9:PRO:HD2	1.73	0.53
2:C:121:LEU:HD11	2:C:200:MET:HE2	1.93	0.51
1:A:40:THR:HB	1:A:44:ASP:HA	1.92	0.51
2:D:59:LEU:HB2	2:D:96:LEU:HD13	1.92	0.51
1:B:53:LEU:HD13	1:B:83:LEU:HD22	1.93	0.50
1:B:17:LYS:NZ	2:C:60:GLU:O	2.44	0.50
2:D:155:ARG:HB2	2:D:201:ALA:HB2	1.95	0.49
2:C:199:ARG:NH1	2:C:209:TRP:CD1	2.82	0.48
2:D:132:ALA:HB2	2:D:139:VAL:HG23	1.94	0.47
2:D:151:THR:HA	2:D:154:ILE:HD12	1.95	0.47
1:A:39:ALA:O	1:A:47:PRO:HD3	2.14	0.47
2:D:58:GLN:HB2	2:D:64:TRP:CD2	2.51	0.46
1:A:53:LEU:HD13	1:A:83:LEU:HD22	1.97	0.46
2:D:131:LEU:HG	2:D:218:LEU:HD21	1.98	0.45
2:D:161:SER:HB2	2:D:193:THR:HB	1.99	0.45
1:B:86:THR:HG23	1:B:116:LEU:HB3	1.98	0.45
2:C:58:GLN:HB2	2:C:64:TRP:CD2	2.51	0.45
1:B:82:HIS:O	1:B:86:THR:OG1	2.36	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:199:ARG:HB2	2:C:209:TRP:CE3	2.52	0.44
1:B:11:LEU:HD21	1:B:33:ASN:HB3	2.00	0.44
1:A:20:ARG:HH21	2:D:97:GLU:HB2	1.82	0.43
1:B:43:TRP:O	1:B:74:ASP:HB2	2.18	0.43
2:D:120:LEU:HD13	2:D:208:PHE:HB2	2.00	0.43
1:A:139:GLN:HG2	1:A:145:THR:HG22	1.98	0.43
1:A:127:LEU:HB2	1:B:94:LEU:HD13	2.01	0.43
1:B:39:ALA:O	1:B:47:PRO:HD3	2.19	0.43
2:C:161:SER:HB2	2:C:193:THR:HB	2.01	0.42
2:C:8:ASP:N	2:C:9:PRO:HD2	2.35	0.42
2:C:127:LEU:HD11	2:C:140:LEU:HD22	2.01	0.42
1:B:76:THR:HB	2:C:107:PRO:HD3	2.02	0.41
1:B:81:LEU:HD23	1:B:113:PRO:HG2	2.02	0.41
1:B:82:HIS:HD2	1:B:116:LEU:HD13	1.85	0.41
1:B:116:LEU:O	1:B:120:MET:HG2	2.20	0.41
2:D:59:LEU:HD12	2:D:96:LEU:HB2	2.02	0.41
2:C:199:ARG:NH1	2:C:209:TRP:NE1	2.69	0.41
2:D:127:LEU:HD11	2:D:140:LEU:HD22	2.02	0.41
2:D:145:PRO:HA	2:D:146:PRO:HD3	1.90	0.40
2:C:153:HIS:HA	2:C:176:GLU:OE2	2.20	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	153/165 (93%)	148 (97%)	5 (3%)	0	100	100
1	B	153/165 (93%)	148 (97%)	5 (3%)	0	100	100
2	C	197/229 (86%)	185 (94%)	12 (6%)	0	100	100
2	D	207/229 (90%)	196 (95%)	10 (5%)	1 (0%)	24	59
All	All	710/788 (90%)	677 (95%)	32 (4%)	1 (0%)	48	79

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	D	221	PRO

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	116/126 (92%)	115 (99%)	1 (1%)	70	81
1	B	113/126 (90%)	110 (97%)	3 (3%)	39	68
2	C	166/185 (90%)	161 (97%)	5 (3%)	36	66
2	D	169/185 (91%)	159 (94%)	10 (6%)	18	50
All	All	564/622 (91%)	545 (97%)	19 (3%)	32	64

All (19) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	54	ILE
1	B	11	LEU
1	B	54	ILE
1	B	86	THR
2	C	61	ASP
2	C	83	CYS
2	C	131	LEU
2	C	170	GLN
2	C	185	ASN
2	D	17	LEU
2	D	25	GLU
2	D	32	ARG
2	D	48	VAL
2	D	58	GLN
2	D	61	ASP
2	D	83	CYS
2	D	202	GLU
2	D	219	LEU
2	D	220	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (4) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	89	HIS
1	A	122	HIS
1	A	155	ASN
2	C	185	ASN

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 oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 8 ligands modelled in this entry, 1 is monoatomic - leaving 7 for Mogul analysis.

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	PO4	A	202	-	4,4,4	0.96	0	6,6,6	0.46	0
3	PO4	B	202	-	4,4,4	0.97	0	6,6,6	0.45	0
3	PO4	A	201	4	4,4,4	0.96	0	6,6,6	0.47	0
3	PO4	C	301	-	4,4,4	0.96	0	6,6,6	0.47	0
3	PO4	B	201	-	4,4,4	0.96	0	6,6,6	0.47	0
3	PO4	A	203	-	4,4,4	0.96	0	6,6,6	0.46	0
3	PO4	B	203	-	4,4,4	0.95	0	6,6,6	0.47	0

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.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	B	203	PO4	1	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	155/165 (93%)	0.15	6 (3%)	43	27	10, 31, 73, 101	0
1	B	155/165 (93%)	0.20	6 (3%)	43	27	14, 36, 64, 90	0
2	C	203/229 (88%)	0.92	39 (19%)	3	2	12, 49, 94, 118	0
2	D	211/229 (92%)	0.88	31 (14%)	6	4	22, 51, 88, 126	0
All	All	724/788 (91%)	0.59	82 (11%)	10	7	10, 41, 87, 126	0

All (82) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	D	7	ALA	6.7
2	C	190	THR	6.7
2	C	169	VAL	4.9
2	C	217	SER	4.5
2	C	184	SER	4.4
2	D	202	GLU	4.3
2	C	185	ASN	4.2
2	C	170	GLN	4.0
2	D	9	PRO	3.7
2	C	134	GLU	3.7
1	B	163	GLN	3.7
2	D	22	GLY	3.7
2	C	22	GLY	3.6
2	C	189	ARG	3.6
2	C	175	LEU	3.6
2	C	204	SER	3.5
2	D	10	LYS	3.5
2	C	149	PRO	3.4
2	C	192	TYR	3.3
2	D	20	ALA	3.3
2	D	203	PRO	3.3

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Mol	Chain	Res	Type	RSRZ
2	D	168	SER	3.2
2	C	8	ASP	3.2
2	D	75	ALA	3.2
2	C	147	GLU	3.1
2	C	191	ARG	3.0
2	C	188	GLY	3.0
1	B	10	ASP	3.0
2	D	169	VAL	3.0
2	D	190	THR	3.0
1	B	44	ASP	3.0
2	C	138	VAL	3.0
1	A	141	LYS	2.9
2	C	162	ALA	2.9
2	C	203	PRO	2.9
2	D	8	ASP	2.8
2	D	50	PRO	2.8
2	C	46	ALA	2.8
2	C	151	THR	2.8
2	C	92	SER	2.7
2	D	13	SER	2.7
2	D	24	GLU	2.6
2	C	132	ALA	2.6
1	A	10	ASP	2.6
2	D	77	GLY	2.6
2	D	78	ALA	2.6
2	C	153	HIS	2.5
2	D	19	ALA	2.5
2	C	186	LEU	2.5
2	D	23	PRO	2.5
1	A	157	ASP	2.5
2	C	9	PRO	2.4
2	D	60	GLU	2.4
2	D	48	VAL	2.4
2	D	49	GLY	2.4
2	C	131	LEU	2.4
2	C	137	HIS	2.4
2	C	152	SER	2.4
2	C	150	MET	2.3
2	C	180	GLU	2.3
2	D	44	ALA	2.3
2	C	183	LEU	2.3
1	B	9	SER	2.3

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Mol	Chain	Res	Type	RSRZ
2	D	46	ALA	2.3
2	D	92	SER	2.3
2	D	16	ALA	2.2
1	A	9	SER	2.2
2	C	161	SER	2.2
2	C	34	GLU	2.2
2	D	12	GLU	2.2
2	C	159	ASP	2.2
2	D	21	ARG	2.2
2	D	170	GLN	2.2
2	C	187	ARG	2.2
2	C	148	THR	2.1
1	A	156	GLU	2.1
1	A	44	ASP	2.1
1	B	34	GLY	2.1
2	C	215	PRO	2.1
1	B	33	ASN	2.0
2	D	35	ASP	2.0
2	D	205	PHE	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($\text{\AA}^2$)	Q<0.9
3	PO4	B	202	5/5	0.79	0.23	75,78,80,83	0
3	PO4	B	203	5/5	0.82	0.16	64,78,79,81	0
3	PO4	B	201	5/5	0.88	0.16	60,61,72,75	0
3	PO4	A	201	5/5	0.88	0.15	58,73,80,82	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
3	PO4	A	202	5/5	0.88	0.18	81,83,91,92	0
3	PO4	C	301	5/5	0.91	0.16	67,72,74,81	0
3	PO4	A	203	5/5	0.94	0.16	97,103,105,111	0
4	NA	A	204	1/1	0.97	0.10	26,26,26,26	0

6.5 Other polymers [i](#)

There are no such residues in this entry.