



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 10, 2018 – 12:58 PM EST

PDB ID : 6B5Q
Title : DCN1 bound to 38
Authors : Stuckey, J.
Deposited on : 2017-09-29
Resolution : 2.16 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 : 1.7.2 (RC1), CSD as538be (2017)
Xtriage (Phenix) : 1.9-1692
EDS : rb-20030736
Percentile statistics : 20161228.v01 (using entries in the PDB archive December 28th 2016)
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-20030736

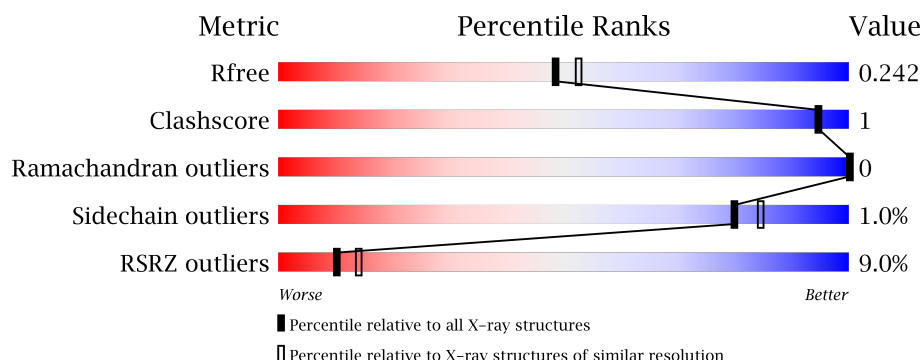
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.16 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}	100719	1170 (2.16-2.16)
Clashscore	112137	1278 (2.16-2.16)
Ramachandran outliers	110173	1256 (2.16-2.16)
Sidechain outliers	110143	1255 (2.16-2.16)
RSRZ outliers	101464	1175 (2.16-2.16)

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	225	<div> <div>8%</div> <div>82%</div> <div>16%</div> </div>
1	B	225	<div> <div>8%</div> <div>77%</div> <div>6%</div> <div>17%</div> </div>
2	D	5	<div> <div>100%</div> </div>
2	E	5	<div> <div>100%</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.

ria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
3	PGE	A	301	-	-	-	X

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 3341 atoms, of which 92 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 DCN1-like protein 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	190	Total	C	N	O	S	0	1	0
			1537	999	247	282	9			
1	B	186	Total	C	N	O	S	0	0	0
			1486	966	241	270	9			

There are 46 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	35	MET	-	initiating methionine	UNP Q96GG9
A	36	SER	-	expression tag	UNP Q96GG9
A	37	TYR	-	expression tag	UNP Q96GG9
A	38	TYR	-	expression tag	UNP Q96GG9
A	39	HIS	-	expression tag	UNP Q96GG9
A	40	HIS	-	expression tag	UNP Q96GG9
A	41	HIS	-	expression tag	UNP Q96GG9
A	42	HIS	-	expression tag	UNP Q96GG9
A	43	HIS	-	expression tag	UNP Q96GG9
A	44	HIS	-	expression tag	UNP Q96GG9
A	45	LEU	-	expression tag	UNP Q96GG9
A	46	GLU	-	expression tag	UNP Q96GG9
A	47	SER	-	expression tag	UNP Q96GG9
A	48	THR	-	expression tag	UNP Q96GG9
A	49	SER	-	expression tag	UNP Q96GG9
A	50	LEU	-	expression tag	UNP Q96GG9
A	51	TYR	-	expression tag	UNP Q96GG9
A	52	LYS	-	expression tag	UNP Q96GG9
A	53	LYS	-	expression tag	UNP Q96GG9
A	54	ALA	-	expression tag	UNP Q96GG9
A	55	GLY	-	expression tag	UNP Q96GG9
A	56	THR	-	expression tag	UNP Q96GG9
A	57	MET	-	expression tag	UNP Q96GG9
B	35	MET	-	initiating methionine	UNP Q96GG9
B	36	SER	-	expression tag	UNP Q96GG9

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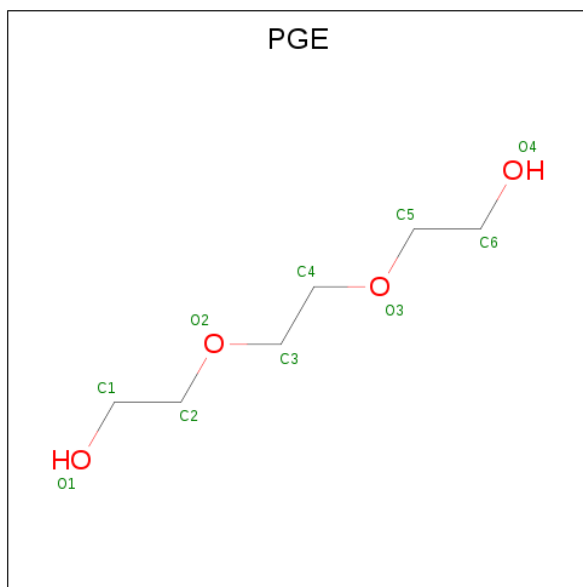
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Chain	Residue	Modelled	Actual	Comment	Reference
B	37	TYR	-	expression tag	UNP Q96GG9
B	38	TYR	-	expression tag	UNP Q96GG9
B	39	HIS	-	expression tag	UNP Q96GG9
B	40	HIS	-	expression tag	UNP Q96GG9
B	41	HIS	-	expression tag	UNP Q96GG9
B	42	HIS	-	expression tag	UNP Q96GG9
B	43	HIS	-	expression tag	UNP Q96GG9
B	44	HIS	-	expression tag	UNP Q96GG9
B	45	LEU	-	expression tag	UNP Q96GG9
B	46	GLU	-	expression tag	UNP Q96GG9
B	47	SER	-	expression tag	UNP Q96GG9
B	48	THR	-	expression tag	UNP Q96GG9
B	49	SER	-	expression tag	UNP Q96GG9
B	50	LEU	-	expression tag	UNP Q96GG9
B	51	TYR	-	expression tag	UNP Q96GG9
B	52	LYS	-	expression tag	UNP Q96GG9
B	53	LYS	-	expression tag	UNP Q96GG9
B	54	ALA	-	expression tag	UNP Q96GG9
B	55	GLY	-	expression tag	UNP Q96GG9
B	56	THR	-	expression tag	UNP Q96GG9
B	57	MET	-	expression tag	UNP Q96GG9

- Molecule 2 is a protein called Peptidomimetic Inhibitors DI-591.

Mol	Chain	Residues	Atoms							ZeroOcc	AltConf	Trace
2	D	5	Total	C	Cl	H	N	O	S	0	0	0
			96	37	1	46	6	5	1			
2	E	5	Total	C	Cl	H	N	O	S	0	0	0
			96	37	1	46	6	5	1			

- Molecule 3 is TRIETHYLENE GLYCOL (three-letter code: PGE) (formula: C₆H₁₄O₄).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	C	O	0	0
			9	6	3		
3	B	1	Total	C	O	0	0
			7	4	3		

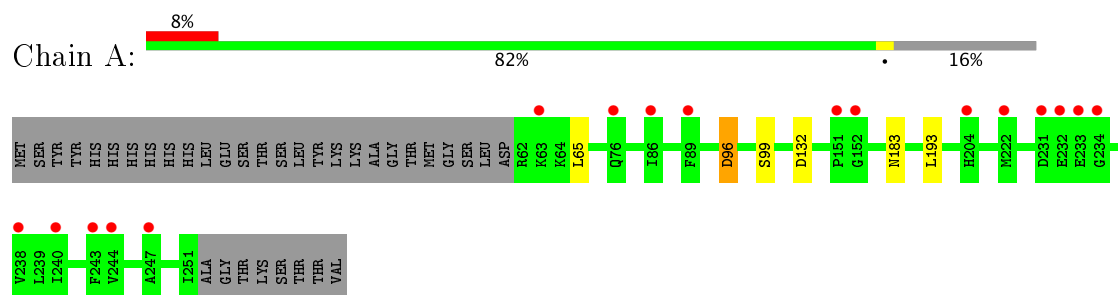
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	58	Total	O	0	0
			58	58		
4	B	49	Total	O	0	0
			49	49		
4	D	2	Total	O	0	0
			2	2		
4	E	1	Total	O	0	0
			1	1		

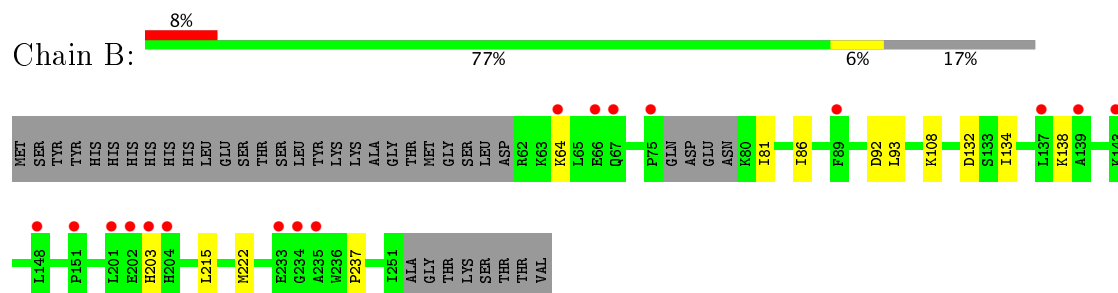
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of 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: DCN1-like protein 1



- Molecule 1: DCN1-like protein 1



- Molecule 2: Peptidomimetic Inhibitors DI-591



There are no outlier residues recorded for this chain.

- Molecule 2: Peptidomimetic Inhibitors DI-591



There are no outlier residues recorded for this chain.

4 Data and refinement statistics

Property	Value	Source
Space group	C 2 2 21	Depositor
Cell constants a, b, c, α , β , γ	88.09Å 90.84Å 105.01Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	16.44 – 2.16 16.44 – 2.16	Depositor EDS
% Data completeness (in resolution range)	99.2 (16.44-2.16) 99.6 (16.44-2.16)	Depositor EDS
R_{merge}	0.05	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	7.98 (at 2.16Å)	Xtriage
Refinement program	BUSTER 2.10.3	Depositor
R, R_{free}	0.195 , 0.241 0.194 , 0.242	Depositor DCC
R_{free} test set	1165 reflections (5.40%)	DCC
Wilson B-factor (Å ²)	38.7	Xtriage
Anisotropy	0.515	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 56.2	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	0.036 for -k,-h,-l	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	3341	wwPDB-VP
Average B, all atoms (Å ²)	57.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.23% 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

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: PGE, CZS, PPI, 2KY, MLY, 1XY

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	0.53	0/1579	0.62	0/2134
1	B	0.52	0/1522	0.62	0/2060
All	All	0.52	0/3101	0.62	0/4194

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	1537	0	1477	3	0
1	B	1486	0	1406	6	0
2	D	50	46	30	0	0
2	E	50	46	30	0	0
3	A	9	0	11	0	0
3	B	7	0	9	1	0
4	A	58	0	0	0	0
4	B	49	0	0	0	0
4	D	2	0	0	0	0
4	E	1	0	0	0	0
All	All	3249	92	2963	9	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 1.

All (9) 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:96[B]:ASP:HB2	1:A:99:SER:HB3	1.94	0.50
1:B:108:LYS:HD2	3:B:301:PGE:H5	1.96	0.47
1:B:81:ILE:HG22	1:B:86:ILE:HG13	1.97	0.47
1:B:92:ASP:HB3	1:B:134:ILE:HG21	1.97	0.46
1:B:64:LYS:HD2	1:B:132:ASP:HB2	1.97	0.46
1:A:65:LEU:HD13	1:A:132:ASP:HA	1.98	0.45
1:B:93:LEU:HD23	1:B:138:LYS:HG3	1.99	0.44
1:B:215:LEU:HD13	1:B:237:PRO:HD3	2.00	0.43
1:A:183:ASN:HA	1:A:193:LEU:HD21	2.03	0.41

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	189/225 (84%)	187 (99%)	2 (1%)	0	100	100
1	B	182/225 (81%)	178 (98%)	4 (2%)	0	100	100
All	All	371/450 (82%)	365 (98%)	6 (2%)	0	100	100

There are no Ramachandran outliers to report.

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	160/199 (80%)	158 (99%)	2 (1%)	73	79
1	B	151/199 (76%)	149 (99%)	2 (1%)	73	79
All	All	311/398 (78%)	307 (99%)	4 (1%)	80	79

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

Mol	Chain	Res	Type
1	A	96[A]	ASP
1	A	96[B]	ASP
1	B	203	HIS
1	B	222	MET

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

6 non-standard protein/DNA/RNA residues 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	CZS	D	2	2	14,16,17	1.03	1 (7%)	13,22,24	1.47	3 (23%)
2	2KY	D	3	2	9,9,10	0.84	0	7,11,13	1.14	1 (14%)
2	MLY	D	4	2	10,10,11	0.81	1 (10%)	8,11,13	0.77	1 (12%)
2	CZS	E	2	2	14,16,17	1.10	1 (7%)	13,22,24	1.51	3 (23%)
2	2KY	E	3	2	9,9,10	0.86	1 (11%)	7,11,13	1.30	1 (14%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	MLY	E	4	2	10,10,11	0.85	1 (10%)	8,11,13	0.90	1 (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	CZS	D	2	2	-	0/2/6/8	0/2/2/2
2	2KY	D	3	2	-	0/3/13/15	0/1/1/1
2	MLY	D	4	2	-	0/7/9/11	0/0/0/0
2	CZS	E	2	2	-	0/2/6/8	0/2/2/2
2	2KY	E	3	2	-	0/3/13/15	0/1/1/1
2	MLY	E	4	2	-	0/7/9/11	0/0/0/0

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	D	4	MLY	CA-C	2.27	1.53	1.50
2	E	3	2KY	C6-C5	2.30	1.53	1.50
2	D	2	CZS	C3-C4	2.33	1.53	1.50
2	E	4	MLY	CA-C	2.47	1.53	1.50
2	E	2	CZS	C3-C4	2.63	1.53	1.50

All (10) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	E	3	2KY	O32-C5-C6	-2.66	118.95	125.15
2	D	3	2KY	O32-C5-C6	-2.42	119.51	125.15
2	E	4	MLY	O-C-CA	-2.15	119.09	125.02
2	D	4	MLY	O-C-CA	-2.11	119.20	125.02
2	D	2	CZS	C31-C36-S	-2.09	109.41	112.03
2	E	2	CZS	C31-C36-S	-2.09	109.41	112.03
2	D	2	CZS	C35-C36-S	2.27	129.02	124.84
2	E	2	CZS	C35-C36-S	2.30	129.07	124.84
2	D	2	CZS	C36-C31-N5	2.97	114.89	108.04
2	E	2	CZS	C36-C31-N5	3.00	114.96	108.04

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates

There are no carbohydrates in this entry.

5.6 Ligand geometry

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	PGE	A	301	-	8,8,9	0.20	0	7,7,8	0.13	0
3	PGE	B	301	-	6,6,9	0.11	0	5,5,8	0.10	0

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	PGE	A	301	-	-	0/6/6/7	0/0/0/0
3	PGE	B	301	-	-	0/4/4/7	0/0/0/0

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	301	PGE	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	190/225 (84%)	0.36	17 (8%) 10 14	29, 54, 87, 104	0
1	B	186/225 (82%)	0.40	17 (9%) 10 14	29, 57, 100, 118	0
2	D	0/5	-	-	-	-
2	E	0/5	-	-	-	-
All	All	376/460 (81%)	0.38	34 (9%) 10 14	29, 55, 95, 118	0

All (34) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	231	ASP	6.6
1	A	151	PRO	5.4
1	B	204	HIS	5.0
1	A	204	HIS	4.6
1	B	67	GLN	4.2
1	B	201	LEU	3.8
1	B	235	ALA	3.7
1	B	233	GLU	3.6
1	B	143	LYS	3.6
1	B	75	PRO	3.5
1	A	243	PHE	3.3
1	B	139	ALA	3.3
1	A	232	GLU	3.3
1	B	151	PRO	3.1
1	B	137	LEU	3.1
1	A	233	GLU	2.8
1	B	203	HIS	2.8
1	A	86	ILE	2.8
1	A	238	VAL	2.6
1	B	66	GLU	2.6
1	B	202	GLU	2.6
1	B	234	GLY	2.6

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Mol	Chain	Res	Type	RSRZ
1	B	64	LYS	2.5
1	A	222	MET	2.5
1	A	234	GLY	2.5
1	B	89	PHE	2.3
1	A	247	ALA	2.3
1	A	152	GLY	2.3
1	A	63	LYS	2.2
1	A	244	VAL	2.1
1	A	89	PHE	2.1
1	A	240	ILE	2.0
1	B	148	LEU	2.0
1	A	76	GLN	2.0

6.2 Non-standard residues in protein, DNA, RNA chains [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
2	MLY	D	4	11/12	0.95	0.12	-	32,35,37,38	0
2	2KY	D	3	9/10	0.97	0.14	-	33,35,38,39	0
2	CZS	E	2	15/16	0.97	0.09	-	33,43,48,49	0
2	CZS	D	2	15/16	0.96	0.10	-	32,40,44,45	0
2	2KY	E	3	9/10	0.95	0.15	-	35,38,43,44	0
2	MLY	E	4	11/12	0.96	0.08	-	34,38,40,41	0

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	PGE	A	301	9/10	0.74	0.21	4.45	61,65,72,72	0
3	PGE	B	301	7/10	0.83	0.14	0.32	72,73,75,77	0

6.5 Other polymers [i](#)

There are no such residues in this entry.