



Full wwPDB X-ray Structure Validation Report

Feb 26, 2014 – 11:03 PM GMT

PDB ID : 2H5O
Title : Crystal structure of mOrange
Authors : Shu, X.; Remington, S.J.
Deposited on : 2006-05-26
Resolution : 1.08 Å(reported)

This is a full wwPDB 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/ValidationPDFNotes.html>

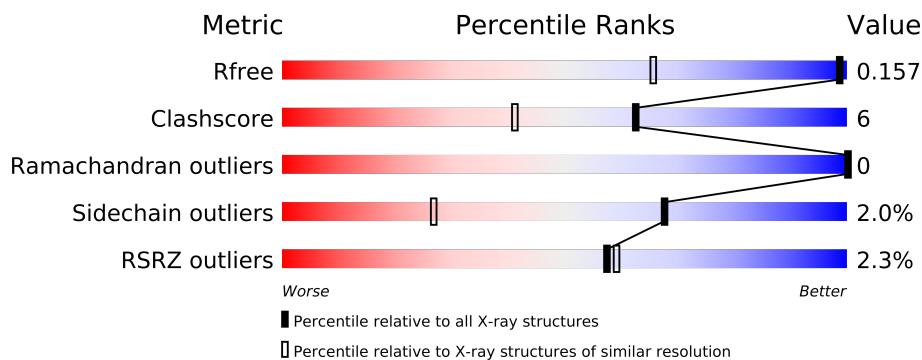
The following versions of software and data (see [references](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.15 2013
Xtriage (Phenix) : dev-1323
EDS : stable22639
Percentile statistics : 21963
Refmac : 5.8.0049
CCP4 : 6.3.0 (Settle)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)
Validation Pipeline (wwPDB-VP) : stable22683

1 Overall quality at a glance

The reported resolution of this entry is 1.08 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}	66092	1099 (1.18-0.98)
Clashscore	79885	1084 (1.16-1.00)
Ramachandran outliers	78287	1025 (1.16-1.00)
Sidechain outliers	78261	1023 (1.16-1.00)
RSRZ outliers	66119	1099 (1.18-0.98)

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. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density.

Mol	Chain	Length	Quality of chain
1	A	234	
1	B	234	

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 4146 atoms, of which 0 are hydrogen and 0 are deuterium.

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 mOrange.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	215	Total	C	N	O	S	0	22	0
			1805	1153	305	340	7			
1	B	215	Total	C	N	O	S	0	22	0
			1790	1143	301	337	9			

- Molecule 2 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	1	Total	Mg	0	0
			1	1		

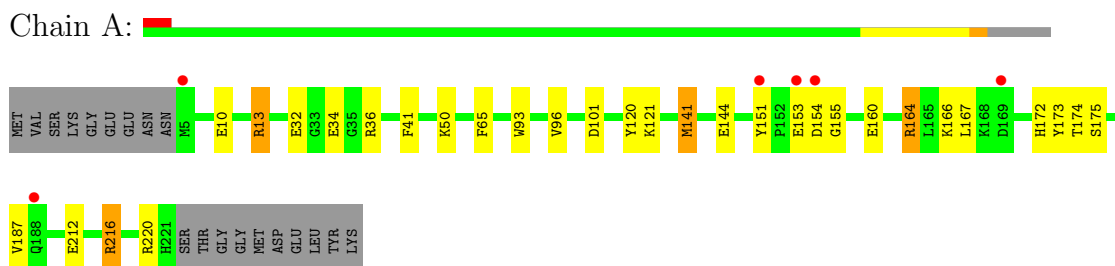
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	259	Total	O	0	0
			259	259		
3	B	291	Total	O	0	0
			291	291		

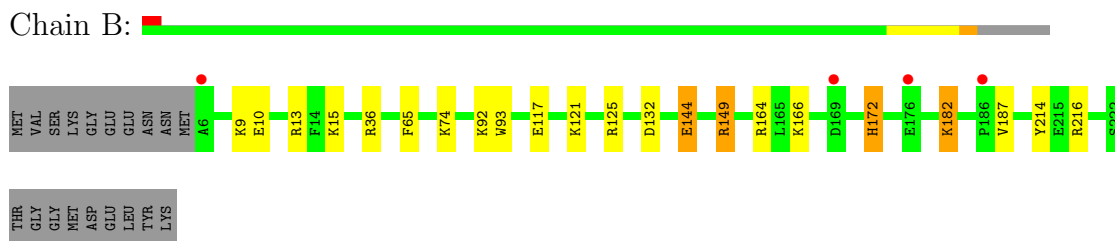
3 Residue-property plots

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: mOrange



• Molecule 1: mOrange



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	59.30Å 62.35Å 107.78Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	10.00 – 1.08 31.13 – 1.08	Depositor EDS
% Data completeness (in resolution range)	99.5 (10.00-1.08) 95.0 (31.13-1.08)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.86 (at 1.08Å)	Xtriage
Refinement program	SHELXL-97	Depositor
R, R_{free}	0.144 , 0.191 0.153 , 0.157	Depositor DCC
R_{free} test set	3258 reflections (2.05%)	DCC
Wilson B-factor (Å ²)	10.9	Xtriage
Anisotropy	0.134	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 46.3	EDS
Estimated twinning fraction	0.018 for k,h,-l	Xtriage
L-test for twinning	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Outliers	0 of 170241 reflections	Xtriage
F_o, F_c correlation	0.98	EDS
Total number of atoms	4146	wwPDB-VP
Average B, all atoms (Å ²)	19.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.81% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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: MG, CRO

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	0.81	1/1959 (0.1%)	1.46	29/2629 (1.1%)
1	B	1.70	5/1936 (0.3%)	1.46	27/2599 (1.0%)
All	All	1.33	6/3895 (0.2%)	1.46	56/5228 (1.1%)

All (6) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	172[A]	HIS	CB-CG	45.70	2.32	1.50
1	B	172[B]	HIS	CB-CG	45.70	2.32	1.50
1	B	65	PHE	C-O	10.78	1.43	1.23
1	A	65	PHE	C-O	10.35	1.43	1.23
1	B	172[A]	HIS	CG-CD2	-5.64	1.26	1.35
1	B	172[B]	HIS	CG-CD2	-5.64	1.26	1.35

All (56) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	149[A]	ARG	NE-CZ-NH2	15.46	128.03	120.30
1	B	149[B]	ARG	NE-CZ-NH2	15.46	128.03	120.30
1	B	172[A]	HIS	ND1-CG-CD2	13.51	127.71	108.80
1	B	172[B]	HIS	ND1-CG-CD2	13.51	127.71	108.80
1	A	164[A]	ARG	NE-CZ-NH1	10.76	125.68	120.30
1	A	164[B]	ARG	NE-CZ-NH1	10.76	125.68	120.30
1	B	13	ARG	NE-CZ-NH2	-9.85	115.37	120.30
1	B	125[A]	ARG	NE-CZ-NH2	-8.87	115.87	120.30
1	B	125[B]	ARG	NE-CZ-NH2	-8.87	115.87	120.30
1	A	216[A]	ARG	NE-CZ-NH2	8.64	124.62	120.30
1	A	216[B]	ARG	NE-CZ-NH2	8.64	124.62	120.30
1	A	120	TYR	CB-CG-CD1	8.59	126.16	121.00
1	A	173	TYR	CA-CB-CG	8.48	129.52	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	172[A]	HIS	CG-CD2-NE2	-8.40	93.24	109.20
1	B	172[B]	HIS	CG-CD2-NE2	-8.40	93.24	109.20
1	B	144	GLU	OE1-CD-OE2	-6.91	115.01	123.30
1	B	117	GLU	OE1-CD-OE2	6.87	131.54	123.30
1	A	32[A]	GLU	CA-CB-CG	6.85	128.47	113.40
1	A	32[B]	GLU	CA-CB-CG	6.85	128.47	113.40
1	B	172[A]	HIS	CB-CG-ND1	-6.83	106.11	123.20
1	B	172[B]	HIS	CB-CG-ND1	-6.83	106.11	123.20
1	A	173	TYR	CB-CG-CD1	6.70	125.02	121.00
1	B	182	LYS	CB-CG-CD	6.69	128.99	111.60
1	A	36	ARG	NE-CZ-NH2	-6.62	116.99	120.30
1	A	50	LYS	CA-CB-CG	6.61	127.94	113.40
1	A	10	GLU	OE1-CD-OE2	6.55	131.16	123.30
1	B	132	ASP	CB-CG-OD1	6.40	124.06	118.30
1	A	173	TYR	CB-CG-CD2	-6.32	117.21	121.00
1	B	214	TYR	CG-CD1-CE1	6.26	126.31	121.30
1	B	149[A]	ARG	CB-CG-CD	6.17	127.64	111.60
1	B	149[B]	ARG	CB-CG-CD	6.17	127.64	111.60
1	A	154	ASP	CB-CG-OD2	-6.16	112.76	118.30
1	B	149[A]	ARG	NH1-CZ-NH2	-6.07	112.72	119.40
1	B	149[B]	ARG	NH1-CZ-NH2	-6.07	112.72	119.40
1	B	172[A]	HIS	CG-ND1-CE1	-6.04	97.84	105.70
1	B	172[B]	HIS	CG-ND1-CE1	-6.04	97.84	105.70
1	A	101	ASP	CB-CG-OD1	-6.04	112.86	118.30
1	A	93	TRP	CA-CB-CG	5.97	125.05	113.70
1	B	10	GLU	OE1-CD-OE2	5.92	130.40	123.30
1	A	220	ARG	NE-CZ-NH1	5.77	123.18	120.30
1	A	13[A]	ARG	NE-CZ-NH2	5.54	123.07	120.30
1	A	13[B]	ARG	NE-CZ-NH2	5.54	123.07	120.30
1	A	155	GLY	O-C-N	-5.50	113.89	122.70
1	B	36	ARG	NE-CZ-NH2	-5.49	117.55	120.30
1	A	164[A]	ARG	CD-NE-CZ	5.48	131.28	123.60
1	A	164[B]	ARG	CD-NE-CZ	5.48	131.28	123.60
1	A	153	GLU	OE1-CD-OE2	5.48	129.87	123.30
1	A	187	VAL	O-C-N	5.39	131.32	122.70
1	A	96	VAL	CA-CB-CG2	-5.38	102.83	110.90
1	A	41	PHE	CB-CG-CD1	5.35	124.54	120.80
1	A	120	TYR	CB-CG-CD2	-5.28	117.83	121.00
1	A	175	SER	O-C-N	5.19	131.00	122.70
1	B	93	TRP	CA-CB-CG	5.17	123.53	113.70
1	B	216	ARG	CD-NE-CZ	5.14	130.80	123.60
1	B	13	ARG	CD-NE-CZ	5.08	130.71	123.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	141	MET	CG-SD-CE	5.01	108.22	100.20

There are no chirality outliers.

There are no planarity outliers.

5.2 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 hydrogens added by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, and the number in parentheses is this value normalized per 1000 atoms of the molecule in the chain. The Symm-Clashes column gives symmetry related clashes, in the same way as for the Clashes column.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1805	0	0	9	0
1	B	1790	0	2	12	0
2	A	1	0	0	0	0
3	A	259	0	0	5	0
3	B	291	0	0	8	0
All	All	4146	0	2	20	0

Clashscore is defined as the number of clashes calculated for the entry per 1000 atoms (including hydrogens) of the entry. The overall clashscore for this entry is 6.

All (20) close contacts within the same asymmetric unit are listed below.

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:151[B]:TYR:OH	1:A:160:GLU:OE2	2.29	0.50
1:B:144:GLU:OE2	1:B:172[A]:HIS:NE2	2.46	0.49
1:A:144:GLU:OE2	1:A:172:HIS:NE2	2.47	0.48
1:A:13[B]:ARG:NH1	1:A:34:GLU:OE1	2.48	0.47
1:B:164[A]:ARG:NH2	3:B:551:HOH:O	2.47	0.47
1:A:164[B]:ARG:NE	3:A:528:HOH:O	2.48	0.47
1:B:92[A]:LYS:NZ	3:B:720:HOH:O	2.47	0.47
1:B:15[A]:LYS:NZ	3:B:798:HOH:O	2.48	0.47
1:B:149[B]:ARG:NH1	3:B:421:HOH:O	2.48	0.46
1:B:149[B]:ARG:NE	3:B:808:HOH:O	2.49	0.45
1:A:166:LYS:NZ	3:A:732:HOH:O	2.50	0.45
1:A:121[B]:LYS:NZ	3:A:749:HOH:O	2.49	0.45
1:B:74:LYS:NZ	3:B:686:HOH:O	2.50	0.45
1:A:164[A]:ARG:NH1	3:A:657:HOH:O	2.50	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:149[A]:ARG:NH2	3:B:847:HOH:O	2.50	0.43
1:A:121[B]:LYS:NZ	3:A:315:HOH:O	2.52	0.42
1:B:166:LYS:NZ	3:B:531:HOH:O	2.51	0.42
1:A:212:GLU:OE1	1:B:9:LYS:NZ	2.52	0.42

There are no symmetry-related clashes.

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	234/234 (100%)	231 (99%)	3 (1%)	0	100	100
1	B	232/234 (99%)	228 (98%)	4 (2%)	0	100	100
All	All	466/468 (100%)	459 (98%)	7 (2%)	0	100	100

There are no Ramachandran outliers to report.

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	202/198 (102%)	197 (98%)	5 (2%)	60	18
1	B	202/198 (102%)	198 (98%)	4 (2%)	68	27
All	All	404/396 (102%)	395 (98%)	9 (2%)	68	22

All (9) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	141	MET

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Mol	Chain	Res	Type
1	A	167	LEU
1	A	174	THR
1	A	216[A]	ARG
1	A	216[B]	ARG
1	B	121[A]	LYS
1	B	121[B]	LYS
1	B	182	LYS
1	B	187	VAL

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 chains in this entry.

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

2 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	$\# Z > 2$
1	CRO	A	66	1	23,23,24	4.67	12 (52%)	30,32,34	2.64	13 (43%)
1	CRO	B	66	1	23,23,24	5.07	12 (52%)	30,32,34	2.22	8 (26%)

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
1	CRO	A	66	1	-	0/12/31/32	0/2/2/2
1	CRO	B	66	1	-	0/12/31/32	0/2/2/2

All (24) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	66	CRO	O3-C3	20.58	1.25	1.11
1	A	66	CRO	O3-C3	15.89	1.22	1.11
1	A	66	CRO	CB2-CA2	8.43	1.40	1.35
1	B	66	CRO	CB2-CA2	6.46	1.39	1.35
1	A	66	CRO	CA1-N1	-5.95	1.26	1.47
1	B	66	CRO	CA1-N1	-5.42	1.28	1.47
1	A	66	CRO	CG1-CB1	-5.12	1.38	1.51
1	A	66	CRO	CG2-CB2	-4.52	1.37	1.46
1	B	66	CRO	CA1-C1	-4.33	1.44	1.51
1	A	66	CRO	CA1-C1	-4.01	1.45	1.51
1	A	66	CRO	CE1-CZ	3.88	1.47	1.38
1	A	66	CRO	OH-CZ	-3.61	1.27	1.37
1	A	66	CRO	OG1-CB1	3.56	1.50	1.43
1	B	66	CRO	OH-CZ	-3.27	1.28	1.37
1	A	66	CRO	CD2-CG2	3.12	1.45	1.39
1	B	66	CRO	CE1-CZ	3.00	1.45	1.38
1	B	66	CRO	CG2-CB2	-2.89	1.41	1.46
1	A	66	CRO	CE2-CZ	2.88	1.45	1.38
1	B	66	CRO	C1-N3	2.85	1.42	1.37
1	B	66	CRO	CD2-CG2	2.67	1.44	1.39
1	B	66	CRO	C1-N2	2.65	1.36	1.32
1	B	66	CRO	CA2-C2	-2.40	1.45	1.48
1	B	66	CRO	OG1-CB1	2.39	1.48	1.43
1	A	66	CRO	C1-N2	2.39	1.36	1.32

All (21) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	66	CRO	C1-CA1-N1	7.95	125.73	109.07
1	B	66	CRO	C1-CA1-N1	7.03	123.81	109.07
1	A	66	CRO	O2-C2-CA2	5.21	133.97	130.96
1	B	66	CRO	CA2-C2-N3	4.15	105.80	103.44
1	B	66	CRO	CG1-CB1-CA1	-4.10	104.96	112.56
1	A	66	CRO	OG1-CB1-CA1	-3.99	95.81	108.83
1	A	66	CRO	CG1-CB1-CA1	-3.96	105.22	112.56
1	A	66	CRO	CB2-CA2-C2	-3.79	116.64	122.46
1	A	66	CRO	CA2-C2-N3	3.55	105.46	103.44
1	B	66	CRO	CB1-CA1-N1	3.52	113.79	109.22
1	A	66	CRO	CD2-CE2-CZ	3.06	123.56	119.87
1	B	66	CRO	OG1-CB1-CA1	-2.76	99.83	108.83
1	B	66	CRO	N3-C1-N2	2.73	113.51	111.51
1	A	66	CRO	CG2-CB2-CA2	-2.72	126.98	130.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	66	CRO	CB1-CA1-N1	2.69	112.71	109.22
1	A	66	CRO	N3-C1-N2	2.33	113.22	111.51
1	A	66	CRO	O2-C2-N3	-2.15	120.08	124.71
1	A	66	CRO	CE2-CZ-CE1	-2.11	115.48	119.74
1	B	66	CRO	CD2-CE2-CZ	2.08	122.37	119.87
1	A	66	CRO	CB2-CA2-N2	2.04	132.36	128.59
1	B	66	CRO	CB1-CA1-C1	2.04	119.17	110.61

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

5.6 Ligand geometry ⓘ

Of 1 ligands modelled in this entry, 1 is monoatomic - leaving 0 for Mogul analysis.

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.

5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues

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	215/234 (91%)	-0.04	6 (2%)	50	51	9, 18, 34, 44	1 (0%)
1	B	215/234 (91%)	-0.34	4 (1%)	64	64	8, 12, 26, 41	0
All	All	430/468 (91%)	-0.19	10 (2%)	57	59	8, 15, 32, 44	1 (0%)

All (10) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	6	ALA	4.0
1	A	151[A]	TYR	3.8
1	B	169	ASP	2.9
1	B	186	PRO	2.5
1	A	153	GLU	2.4
1	A	169	ASP	2.4
1	A	5	MET	2.3
1	A	154	ASP	2.3
1	A	188[A]	GLN	2.1
1	B	176	GLU	2.1

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

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	RSR	LLDF	B-factors(Å ²)	Q<0.9
1	CRO	B	66	22/23	0.05	-0.54	9,11,13,14	0
1	CRO	A	66	22/23	0.05	-0.71	12,14,17,19	0

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	RSR	LLDF	B-factors(Å ²)	Q<0.9
2	MG	A	4001	1/1	0.07	1.26	12,12,12,12	0

6.5 Other polymers

There are no such residues in this entry.