



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 8, 2026 – 09:46 PM UTC

PDB ID : 4OYO / pdb_00004oyo
Title : Human solAC Complexed with 4-(2-Chlorophenyl)-3-methyl-1H-pyrazole
Authors : Vinkovic, M.
Deposited on : 2014-02-12
Resolution : 1.75 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

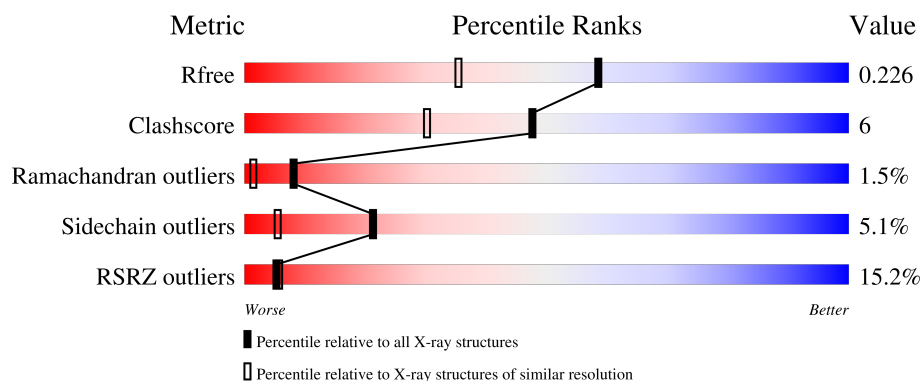
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.75 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	3183 (1.76-1.76)
Clashscore	190562	3299 (1.76-1.76)
Ramachandran outliers	187476	3274 (1.76-1.76)
Sidechain outliers	187428	3274 (1.76-1.76)
RSRZ outliers	180081	3183 (1.76-1.76)

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	470	15% 84% 13% .

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 4452 atoms, of which 27 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.

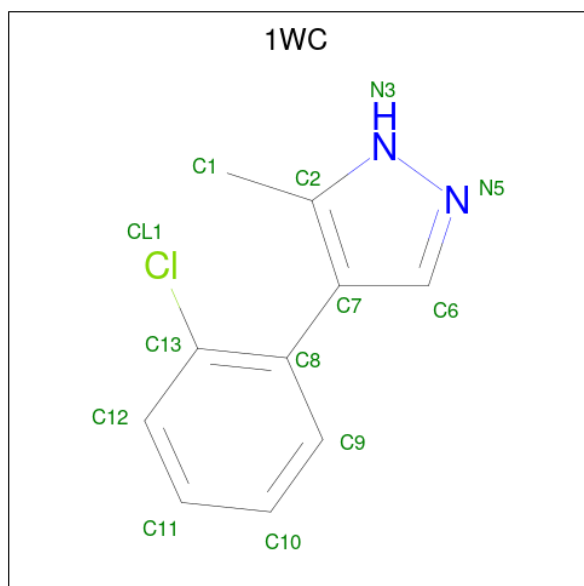
- Molecule 1 is a protein called Adenylate cyclase type 10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	469	3826	2477	618	695	36	0	12	0

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	0	ACE	-	acetylation	UNP Q96PN6

- Molecule 2 is 4-(2-chlorophenyl)-5-methyl-1H-pyrazole (CCD ID: 1WC) (formula: $C_{10}H_9ClN_2$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	Cl	H	N		
2	A	1	22	10	1	9	2	0	0
2	A	1	22	10	1	9	2	0	0

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
2	A	1	Total	C	Cl	H	N	0	0
			22	10	1	9	2		

- Molecule 3 is GLYCEROL (CCD ID: GOL) (formula: $C_3H_8O_3$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	C	O	0	1
			12	6	6		
3	A	1	Total	C	O	0	0
			6	3	3		

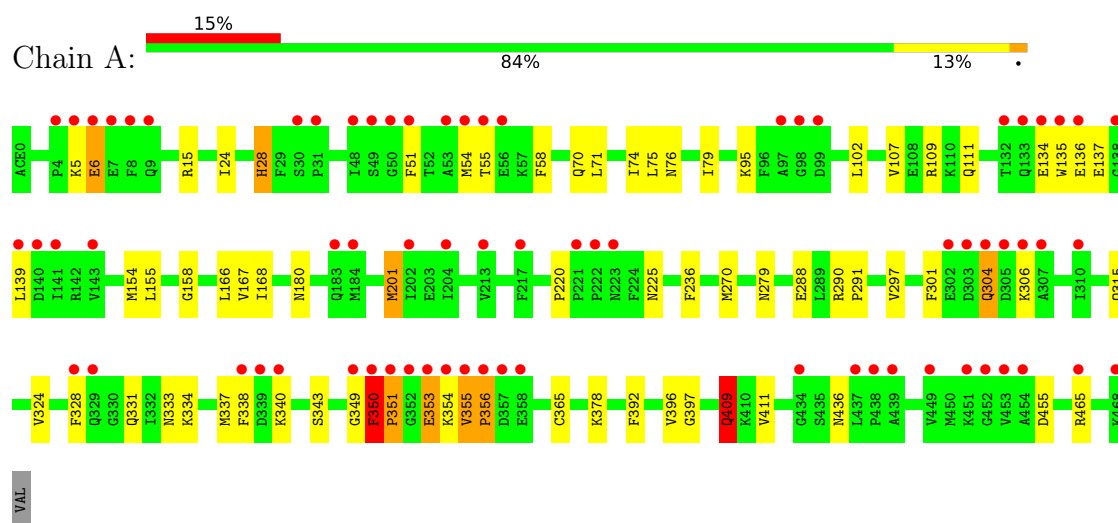
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	542	Total	O	0	0
			542	542		

3 Residue-property plots

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: Adenylate cyclase type 10



4 Data and refinement statistics

Property	Value	Source
Space group	P 63	Depositor
Cell constants a, b, c, α , β , γ	100.03Å 100.03Å 98.01Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	28.88 – 1.75 28.88 – 1.75	Depositor EDS
% Data completeness (in resolution range)	99.7 (28.88-1.75) 99.6 (28.88-1.75)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.35 (at 1.75Å)	Xtriage
Refinement program	BUSTER 2.11.5	Depositor
R, R_{free}	0.176 , 0.212 0.187 , 0.226	Depositor DCC
R_{free} test set	2776 reflections (4.97%)	wwPDB-VP
Wilson B-factor (Å ²)	20.0	Xtriage
Anisotropy	0.095	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 59.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	0.043 for h,-h-k,-l	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	4452	wwPDB-VP
Average B, all atoms (Å ²)	31.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.57% 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: ACE, GOL, CME, 1WC

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	1.01	2/3916 (0.1%)	1.11	8/5297 (0.2%)

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	28	HIS	CA-C	6.20	1.61	1.53
1	A	201	MET	SD-CE	-5.81	1.65	1.79

All (8) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	350[A]	PHE	CA-CB-CG	8.17	121.97	113.80
1	A	350[B]	PHE	CA-CB-CG	8.17	121.97	113.80
1	A	301	PHE	CA-CB-CG	-6.05	107.75	113.80
1	A	349	GLY	N-CA-C	5.94	124.82	115.08
1	A	338	PHE	CA-CB-CG	5.29	119.09	113.80
1	A	409	GLN	CB-CG-CD	5.22	121.48	112.60
1	A	392	PHE	CA-CB-CG	-5.03	108.77	113.80
1	A	328	PHE	CA-CB-CG	-5.01	108.79	113.80

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	3826	0	3803	41	0
2	A	39	27	27	6	0
3	A	18	0	24	3	0
4	A	542	0	0	0	0
All	All	4425	27	3854	43	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 6.

All (43) 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:55:THR:HG22	1:A:71:LEU:HD21	1.66	0.78
1:A:324:VAL:HG12	1:A:365[B]:CYS:SG	2.27	0.74
1:A:158:GLY:H	1:A:315:GLN:HE22	1.33	0.73
1:A:290:ARG:HH21	1:A:353[B]:GLU:HG3	1.62	0.65
1:A:58:PHE:CD1	1:A:71:LEU:HD13	2.31	0.65
1:A:102:LEU:HD23	2:A:502:1WC:CL1	2.34	0.64
1:A:76:ASN:HD21	1:A:396:VAL:HA	1.62	0.64
1:A:76:ASN:ND2	1:A:397:GLY:H	1.97	0.63
1:A:74:ILE:HD11	1:A:135:TRP:CZ2	2.36	0.60
1:A:291:PRO:HB2	1:A:356[B]:PRO:HB3	1.84	0.59
2:A:502:1WC:CL1	2:A:502:1WC:C1	2.88	0.59
1:A:168:ILE:HD12	1:A:337:MET:SD	2.44	0.58
1:A:28:HIS:N	3:A:505:GOL:H11	2.19	0.57
1:A:201:MET:HE1	1:A:220:PRO:HB3	1.87	0.56
1:A:350[A]:PHE:CD1	1:A:351[A]:PRO:HD2	2.41	0.56
1:A:290:ARG:HD3	1:A:350[A]:PHE:HA	1.88	0.56
1:A:355[B]:VAL:HG13	1:A:356[B]:PRO:HD2	1.88	0.55
1:A:324:VAL:CG1	1:A:365[B]:CYS:SG	2.95	0.55
1:A:155:LEU:HD23	1:A:166:LEU:HD12	1.90	0.54
1:A:51:PHE:CZ	1:A:71:LEU:HD11	2.43	0.54
1:A:24:ILE:O	3:A:505:GOL:H2	2.09	0.52
1:A:350[A]:PHE:CG	1:A:351[A]:PRO:HD2	2.45	0.52
1:A:28:HIS:H	3:A:505:GOL:H11	1.75	0.51
1:A:15:ARG:HH22	1:A:279:ASN:HD21	1.60	0.49
1:A:288:GLU:CD	1:A:290:ARG:HD2	2.38	0.49
1:A:95:LYS:HB2	2:A:502:1WC:CL1	2.50	0.48
1:A:107:VAL:HG22	1:A:111:GLN:HB2	1.95	0.48
1:A:167:VAL:H	2:A:502:1WC:H4	1.62	0.48
2:A:502:1WC:CL1	2:A:502:1WC:H16	2.50	0.47
1:A:304:GLN:HB2	1:A:340:LYS:HG2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:331:GLN:HG3	1:A:350[B]:PHE:HE2	1.80	0.47
1:A:411:VAL:CG1	2:A:503:1WC:H18	2.45	0.46
1:A:291:PRO:HG2	1:A:356[B]:PRO:HD3	1.97	0.45
1:A:111:GLN:HG3	1:A:236:PHE:CG	2.53	0.44
1:A:355[B]:VAL:HG22	1:A:356[B]:PRO:HD2	2.00	0.43
1:A:350[A]:PHE:HB2	1:A:351[A]:PRO:CD	2.49	0.42
1:A:355[B]:VAL:HG13	1:A:356[B]:PRO:CD	2.49	0.42
1:A:75:LEU:HD11	1:A:79:ILE:HD11	2.01	0.42
1:A:331:GLN:HG3	1:A:350[A]:PHE:HE1	1.85	0.42
1:A:333:ASN:ND2	1:A:334:LYS:HG2	2.35	0.41
1:A:290:ARG:HD3	1:A:350[B]:PHE:HA	2.01	0.41
1:A:297:VAL:O	1:A:343:SER:HA	2.21	0.41
1:A:409:GLN:HA	1:A:409:GLN:HE21	1.87	0.40

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	478/470 (102%)	449 (94%)	17 (4%)	12 (2%)	4 0

All (12) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	351[A]	PRO
1	A	351[B]	PRO
1	A	353[A]	GLU
1	A	353[B]	GLU
1	A	6	GLU
1	A	455	ASP
1	A	355[A]	VAL
1	A	355[B]	VAL

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Mol	Chain	Res	Type
1	A	356[A]	PRO
1	A	356[B]	PRO
1	A	350[A]	PHE
1	A	350[B]	PHE

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	422/412 (102%)	399 (94%)	23 (6%)	19 4

All (23) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	5	LYS
1	A	6	GLU
1	A	54	MET
1	A	70	GLN
1	A	109	ARG
1	A	134	GLU
1	A	136	GLU
1	A	137	GLU
1	A	139	LEU
1	A	154	MET
1	A	180	ASN
1	A	225	ASN
1	A	270	MET
1	A	304	GLN
1	A	306	LYS
1	A	350[A]	PHE
1	A	350[B]	PHE
1	A	354[A]	LYS
1	A	354[B]	LYS
1	A	378	LYS
1	A	409	GLN
1	A	436	ASN

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Mol	Chain	Res	Type
1	A	465	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (14) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	9	GLN
1	A	76	ASN
1	A	78	HIS
1	A	179	GLN
1	A	180	ASN
1	A	192	ASN
1	A	225	ASN
1	A	279	ASN
1	A	304	GLN
1	A	315	GLN
1	A	331	GLN
1	A	333	ASN
1	A	409	GLN
1	A	461	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

1 non-standard protein/DNA/RNA residue 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	$\# Z > 2$
1	CME	A	253	1	8,9,10	0.42	0	6,9,11	1.08	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
1	CME	A	253	1	-	0/5/8/10	-

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.

No monomer is involved in short contacts.

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

6 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	$\# Z > 2$
2	1WC	A	503	-	14,14,14	0.54	0	17,19,19	0.78	1 (5%)
2	1WC	A	502	-	14,14,14	0.92	1 (7%)	17,19,19	2.22	6 (35%)
3	GOL	A	504[A]	-	5,5,5	0.10	0	5,5,5	0.24	0
3	GOL	A	505	-	5,5,5	0.28	0	5,5,5	1.08	0
3	GOL	A	504[B]	-	5,5,5	0.13	0	5,5,5	0.83	0
2	1WC	A	501	-	14,14,14	0.22	0	17,19,19	0.39	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
2	1WC	A	503	-	-	0/4/4/4	0/2/2/2
2	1WC	A	502	-	-	3/4/4/4	0/2/2/2
3	GOL	A	504[A]	-	-	0/4/4/4	-
3	GOL	A	505	-	-	2/4/4/4	-
3	GOL	A	504[B]	-	-	0/4/4/4	-
2	1WC	A	501	-	-	1/4/4/4	0/2/2/2

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	502	1WC	C6-C7	-2.48	1.37	1.40

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	502	1WC	C2-N3-N5	-5.38	103.94	112.26
2	A	502	1WC	C6-N5-N3	5.00	112.69	105.19
2	A	502	1WC	C7-C2-N3	3.12	111.89	107.19
2	A	502	1WC	C7-C6-N5	-2.75	107.56	111.34
2	A	503	1WC	C6-C7-C2	-2.14	103.09	104.90
2	A	502	1WC	C1-C2-N3	-2.01	118.64	121.81
2	A	502	1WC	C9-C8-C7	-2.01	116.48	119.60

There are no chirality outliers.

All (6) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	502	1WC	C2-C7-C8-C13
3	A	505	GOL	O1-C1-C2-C3
3	A	505	GOL	C1-C2-C3-O3
2	A	502	1WC	C6-C7-C8-C9
2	A	501	1WC	C2-C7-C8-C13
2	A	502	1WC	C2-C7-C8-C9

There are no ring outliers.

3 monomers are involved in 9 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	503	1WC	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	502	1WC	5	0
3	A	505	GOL	3	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	467/470 (99%)	0.62	71 (15%) 5 6	6, 24, 64, 114	12 (2%)

All (71) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	135	TRP	11.1
1	A	351[A]	PRO	8.9
1	A	355[A]	VAL	6.8
1	A	354[A]	LYS	6.2
1	A	139	LEU	6.0
1	A	356[A]	PRO	5.9
1	A	350[A]	PHE	5.5
1	A	328	PHE	5.5
1	A	303	ASP	4.9
1	A	141	ILE	4.8
1	A	353[A]	GLU	4.4
1	A	352[A]	GLY	4.3
1	A	134	GLU	4.2
1	A	339	ASP	4.2
1	A	51	PHE	4.2
1	A	49	SER	4.1
1	A	310	ILE	4.1
1	A	53	ALA	4.1
1	A	468	LYS	4.1
1	A	223	ASN	4.0
1	A	302	GLU	3.8
1	A	437	LEU	3.7
1	A	222	PRO	3.6
1	A	304	GLN	3.6
1	A	8	PHE	3.6
1	A	138	GLY	3.6
1	A	98	GLY	3.5

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Mol	Chain	Res	Type	RSRZ
1	A	5	LYS	3.4
1	A	202	ILE	3.3
1	A	31	PRO	3.3
1	A	349	GLY	3.3
1	A	133	GLN	3.1
1	A	338	PHE	3.1
1	A	48	ILE	3.1
1	A	56	GLU	3.1
1	A	305	ASP	3.1
1	A	357[A]	ASP	3.0
1	A	140	ASP	2.9
1	A	434	GLY	2.9
1	A	453	VAL	2.8
1	A	306	LYS	2.8
1	A	307	ALA	2.7
1	A	217	PHE	2.7
1	A	438	PRO	2.7
1	A	50	GLY	2.7
1	A	9	GLN	2.6
1	A	329	GLN	2.6
1	A	4	PRO	2.6
1	A	55	THR	2.6
1	A	30	SER	2.6
1	A	132	THR	2.6
1	A	449	VAL	2.5
1	A	184	MET	2.5
1	A	97	ALA	2.4
1	A	54	MET	2.4
1	A	143	VAL	2.4
1	A	358[A]	GLU	2.4
1	A	451	LYS	2.4
1	A	452	GLY	2.3
1	A	213	VAL	2.3
1	A	99	ASP	2.3
1	A	340	LYS	2.3
1	A	204	ILE	2.2
1	A	7	GLU	2.2
1	A	136	GLU	2.2
1	A	183	GLN	2.2
1	A	454	ALA	2.1
1	A	221	PRO	2.1
1	A	439	ALA	2.1

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Mol	Chain	Res	Type	RSRZ
1	A	465	ARG	2.1
1	A	6	GLU	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. 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(Å ²)	Q<0.9
1	CME	A	253	10/11	0.97	0.09	8,17,28,28	0

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(Å ²)	Q<0.9
2	1WC	A	502	13/13	0.76	0.13	22,27,31,38	0
3	GOL	A	504[A]	6/6	0.77	0.18	41,45,46,48	6
3	GOL	A	504[B]	6/6	0.77	0.18	23,26,32,33	6
3	GOL	A	505	6/6	0.79	0.21	23,29,33,48	0
2	1WC	A	501	13/13	0.85	0.18	28,32,40,40	22
2	1WC	A	503	13/13	0.87	0.12	31,34,35,36	0

6.5 Other polymers [i](#)

There are no such residues in this entry.