



Full wwPDB X-ray Structure Validation Report ⓘ

Dec 17, 2023 – 03:48 pm GMT

PDB ID : 4CJ0
Title : Crystal structure of CeID in complex with affitin E12
Authors : Correa, A.; Pacheco, S.; Mechaly, A.E.; Obal, G.; Behar, G.; Mouratou, B.;
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Deposited on : 2013-12-18
Resolution : 1.10 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 : 4.02b-467
Mogul : 1.8.4, CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.36
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.36

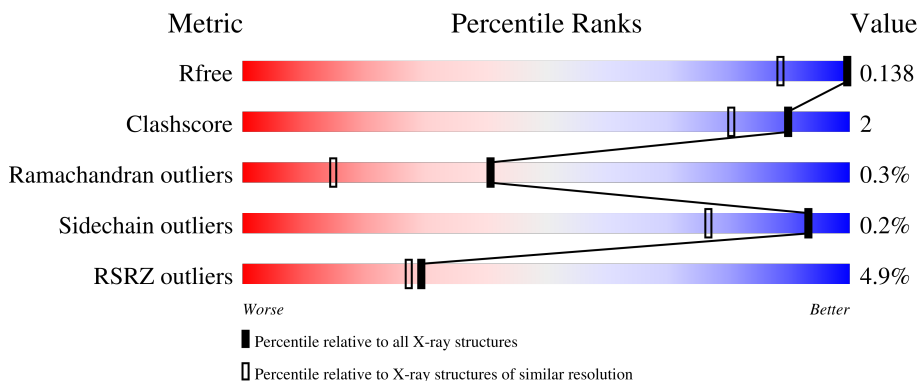
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION


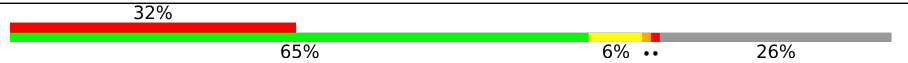
The reported resolution of this entry is 1.10 Å.

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}	130704	1619 (1.14-1.06)
Clashscore	141614	1671 (1.14-1.06)
Ramachandran outliers	138981	1615 (1.14-1.06)
Sidechain outliers	138945	1613 (1.14-1.06)
RSRZ outliers	127900	1588 (1.14-1.06)

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	625	
2	B	81	

2 Entry composition [i](#)

There are 6 unique types of molecules in this entry. The entry contains 5617 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 ENDOGLUCANASE D.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	534	4251	2704	708	821	18	0	7	0

- Molecule 2 is a protein called E12 AFFITIN.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	B	60	460	295	79	85	1	0	0	0

- Molecule 3 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	3	Total	Ca	0	0
			3	3		

- Molecule 4 is ZINC ION (three-letter code: ZN) (formula: Zn).

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

- Molecule 5 is GLYCEROL (three-letter code: GOL) (formula: C₃H₈O₃).



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

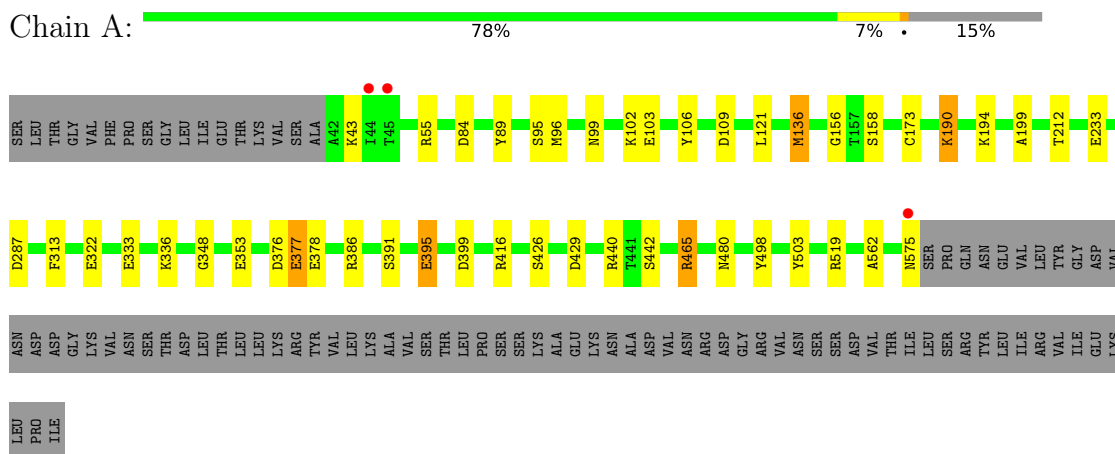
- Molecule 6 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	A	821	Total O 821 821	0	0
6	B	45	Total O 45 45	0	0

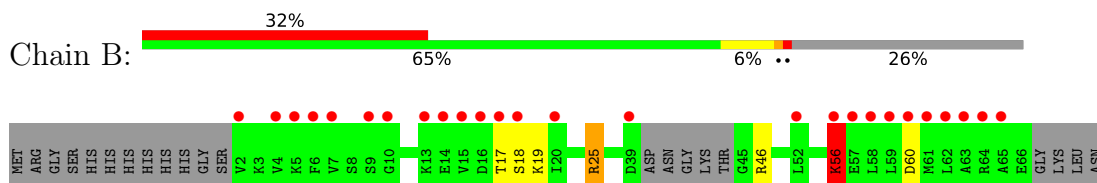
3 Residue-property plots [i](#)

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: ENDOGLUCANASE D



- Molecule 2: E12 AFFITIN



4 Data and refinement statistics

Property	Value	Source
Space group	P 43	Depositor
Cell constants a, b, c, α , β , γ	87.63Å 87.63Å 97.43Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	43.85 – 1.10 43.82 – 1.10	Depositor EDS
% Data completeness (in resolution range)	98.4 (43.85-1.10) 98.4 (43.82-1.10)	Depositor EDS
R_{merge}	0.11	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.74 (at 1.10Å)	Xtrriage
Refinement program	REFMAC 5.7.0029	Depositor
R, R_{free}	0.107 , 0.125 0.122 , 0.138	Depositor DCC
R_{free} test set	14749 reflections (5.05%)	wwPDB-VP
Wilson B-factor (Å ²)	6.8	Xtrriage
Anisotropy	0.188	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.38 , 49.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtrriage
Estimated twinning fraction	0.027 for h,-k,-l	Xtrriage
F_o, F_c correlation	0.98	EDS
Total number of atoms	5617	wwPDB-VP
Average B, all atoms (Å ²)	14.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.22% 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: GOL, ZN, CA

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	1.22	32/4386 (0.7%)	1.07	28/5973 (0.5%)
2	B	1.37	5/466 (1.1%)	1.24	4/629 (0.6%)
All	All	1.24	37/4852 (0.8%)	1.09	32/6602 (0.5%)

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
2	B	0	1
All	All	0	4

All (37) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	395	GLU	CD-OE1	15.73	1.43	1.25
1	A	377	GLU	CD-OE1	15.12	1.42	1.25
1	A	136	MET	SD-CE	-13.56	1.01	1.77
1	A	395	GLU	CD-OE2	12.41	1.39	1.25
1	A	377	GLU	CD-OE2	11.26	1.38	1.25
2	B	56	LYS	C-O	11.23	1.44	1.23
1	A	353	GLU	CG-CD	-9.59	1.37	1.51
1	A	103	GLU	CD-OE2	-9.10	1.15	1.25
1	A	333	GLU	CD-OE2	8.91	1.35	1.25
1	A	378	GLU	CB-CG	-8.62	1.35	1.52
1	A	426	SER	CB-OG	-8.31	1.31	1.42
1	A	429	ASP	CB-CG	8.14	1.68	1.51
1	A	106	TYR	CZ-OH	-8.11	1.24	1.37
1	A	106	TYR	CG-CD1	-7.99	1.28	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	333	GLU	CD-OE1	7.41	1.33	1.25
1	A	348	GLY	CA-C	7.03	1.63	1.51
1	A	313	PHE	CG-CD2	-6.94	1.28	1.38
1	A	95	SER	CB-OG	-6.83	1.33	1.42
1	A	395	GLU	CG-CD	6.76	1.62	1.51
1	A	190	LYS	CD-CE	6.54	1.67	1.51
2	B	18	SER	CA-CB	6.49	1.62	1.52
2	B	56	LYS	CA-CB	6.30	1.67	1.53
1	A	333	GLU	CG-CD	6.01	1.60	1.51
1	A	322	GLU	CD-OE1	-5.88	1.19	1.25
2	B	17	THR	CB-OG1	5.72	1.54	1.43
2	B	56	LYS	C-N	5.70	1.47	1.34
1	A	313	PHE	CD2-CE2	5.64	1.50	1.39
1	A	233	GLU	CD-OE1	5.60	1.31	1.25
1	A	440	ARG	CZ-NH2	5.60	1.40	1.33
1	A	103	GLU	CG-CD	5.46	1.60	1.51
1	A	158	SER	CB-OG	-5.22	1.35	1.42
1	A	377	GLU	CG-CD	5.22	1.59	1.51
1	A	391	SER	CB-OG	-5.20	1.35	1.42
1	A	442	SER	CB-OG	-5.14	1.35	1.42
1	A	480	ASN	CB-CG	5.13	1.62	1.51
1	A	391	SER	CA-CB	5.10	1.60	1.52
1	A	575	ASN	CG-OD1	-5.01	1.12	1.24

All (32) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	429	ASP	CB-CG-OD2	-11.38	108.06	118.30
1	A	377	GLU	CG-CD-OE2	-9.91	98.49	118.30
1	A	313	PHE	CB-CG-CD1	-8.69	114.72	120.80
1	A	106	TYR	CB-CG-CD2	-8.37	115.98	121.00
1	A	96	MET	CG-SD-CE	-8.22	87.05	100.20
1	A	106	TYR	CZ-CE2-CD2	-7.70	112.87	119.80
1	A	287	ASP	CB-CG-OD1	7.48	125.03	118.30
1	A	378	GLU	CG-CD-OE2	-7.43	103.44	118.30
1	A	377	GLU	CG-CD-OE1	-7.28	103.73	118.30
1	A	416	ARG	NE-CZ-NH1	7.28	123.94	120.30
1	A	465	ARG	NE-CZ-NH1	6.42	123.51	120.30
1	A	440	ARG	NE-CZ-NH2	-6.42	117.09	120.30
1	A	503	TYR	CB-CG-CD1	6.40	124.84	121.00
2	B	46	ARG	NE-CZ-NH2	-6.38	117.11	120.30
1	A	378	GLU	CA-CB-CG	6.33	127.32	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	498	TYR	CZ-CE2-CD2	-6.16	114.26	119.80
2	B	25	ARG	NE-CZ-NH2	-5.95	117.33	120.30
1	A	429	ASP	OD1-CG-OD2	5.89	134.49	123.30
1	A	336	LYS	CD-CE-NZ	-5.71	98.56	111.70
1	A	109	ASP	CB-CG-OD1	5.68	123.41	118.30
1	A	386	ARG	NE-CZ-NH1	5.65	123.12	120.30
2	B	17	THR	CA-CB-CG2	-5.61	104.54	112.40
1	A	106	TYR	CE1-CZ-CE2	5.56	128.69	119.80
1	A	498	TYR	CD1-CE1-CZ	-5.56	114.80	119.80
2	B	19	LYS	CB-CA-C	-5.54	99.31	110.40
1	A	399	ASP	CB-CG-OD2	-5.45	113.40	118.30
1	A	498	TYR	CE1-CZ-CE2	5.35	128.36	119.80
1	A	89	TYR	CB-CG-CD2	5.31	124.19	121.00
1	A	121	LEU	CB-CG-CD1	-5.28	102.03	111.00
1	A	395	GLU	CG-CD-OE1	5.26	128.82	118.30
1	A	416	ARG	NE-CZ-NH2	-5.23	117.69	120.30
1	A	55	ARG	NE-CZ-NH1	5.13	122.87	120.30

There are no chirality outliers.

All (4) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	377	GLU	Sidechain
1	A	465	ARG	Sidechain
1	A	519	ARG	Sidechain
2	B	56	LYS	Mainchain

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	4251	0	4011	15	0
2	B	460	0	444	2	0
3	A	3	0	0	0	0
4	A	1	0	0	0	0
5	A	24	0	31	0	0
5	B	12	0	16	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	A	821	0	0	3	1
6	B	45	0	0	1	0
All	All	5617	0	4502	17	1

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 2.

All (17) 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:136:MET:SD	1:A:136:MET:CE	1.01	1.11
1:A:136:MET:CE	1:A:136:MET:CG	2.32	1.07
1:A:136:MET:SD	1:A:136:MET:HE1	1.62	1.03
1:A:136:MET:SD	1:A:136:MET:HE2	1.62	1.00
1:A:136:MET:SD	1:A:136:MET:HE3	1.62	0.99
1:A:43:LYS:HE2	1:A:84:ASP:O	1.90	0.70
1:A:395:GLU:HG2	6:A:2645:HOH:O	1.91	0.70
2:B:56:LYS:O	2:B:60:ASP:N	2.33	0.61
1:A:395:GLU:CG	6:A:2645:HOH:O	2.51	0.54
1:A:136:MET:CG	1:A:136:MET:HE2	2.24	0.46
2:B:25:ARG:HD3	6:B:2012:HOH:O	2.17	0.44
1:A:136:MET:CE	1:A:136:MET:CB	2.93	0.44
1:A:212:THR:HG23	1:A:562:ALA:HB2	2.00	0.43
1:A:43:LYS:CE	1:A:84:ASP:O	2.64	0.42
1:A:99:ASN:HD21	1:A:102:LYS:NZ	2.17	0.42
1:A:190:LYS:CE	6:A:2378:HOH:O	2.68	0.41
1:A:156:GLY:HA2	1:A:173:CYS:O	2.21	0.40

All (1) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A:2045:HOH:O	6:A:2166:HOH:O[4_565]	1.95	0.25

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	539/625 (86%)	530 (98%)	7 (1%)	2 (0%)	34	10
2	B	56/81 (69%)	54 (96%)	2 (4%)	0	100	100
All	All	595/706 (84%)	584 (98%)	9 (2%)	2 (0%)	41	15

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	194	LYS
1	A	199	ALA

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	449/526 (85%)	448 (100%)	1 (0%)	93	77
2	B	45/70 (64%)	45 (100%)	0	100	100
All	All	494/596 (83%)	493 (100%)	1 (0%)	93	77

All (1) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	376	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	99	ASN
1	A	480	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 monosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 10 ligands modelled in this entry, 4 are monoatomic - leaving 6 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
5	GOL	A	1581	-	5,5,5	0.94	0	5,5,5	0.96	0
5	GOL	A	1582	-	5,5,5	0.70	0	5,5,5	0.35	0
5	GOL	B	1068	-	5,5,5	1.05	0	5,5,5	1.22	0
5	GOL	A	1580	-	5,5,5	2.22	2 (40%)	5,5,5	0.74	0
5	GOL	A	1583	-	5,5,5	0.47	0	5,5,5	0.68	0
5	GOL	B	1067	-	5,5,5	1.07	0	5,5,5	0.69	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
5	GOL	A	1581	-	-	0/4/4/4	-
5	GOL	A	1582	-	-	0/4/4/4	-
5	GOL	B	1068	-	-	4/4/4/4	-
5	GOL	A	1580	-	-	0/4/4/4	-
5	GOL	A	1583	-	-	2/4/4/4	-
5	GOL	B	1067	-	-	0/4/4/4	-

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	A	1580	GOL	O2-C2	-3.69	1.32	1.43
5	A	1580	GOL	C3-C2	2.95	1.63	1.51

There are no bond angle outliers.

There are no chirality outliers.

All (6) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	B	1068	GOL	O2-C2-C3-O3
5	A	1583	GOL	O1-C1-C2-C3
5	B	1068	GOL	C1-C2-C3-O3
5	B	1068	GOL	O1-C1-C2-O2
5	A	1583	GOL	O1-C1-C2-O2
5	B	1068	GOL	O1-C1-C2-C3

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

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	534/625 (85%)	-0.43	3 (0%) 89 87	4, 7, 21, 73	0
2	B	60/81 (74%)	1.51	26 (43%) 0 1	7, 34, 76, 126	0
All	All	594/706 (84%)	-0.24	29 (4%) 29 27	4, 8, 38, 126	0

All (29) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	B	2	VAL	7.4
1	A	45	THR	6.0
2	B	6	PHE	4.3
2	B	5	LYS	3.9
2	B	63	ALA	3.9
2	B	59	LEU	3.6
2	B	17	THR	3.5
2	B	20	ILE	3.4
2	B	7	VAL	3.3
2	B	10	GLY	3.2
2	B	4	VAL	2.9
2	B	61	MET	2.9
2	B	64	ARG	2.9
2	B	18	SER	2.9
1	A	44	ILE	2.9
2	B	15	VAL	2.8
2	B	14	GLU	2.7
2	B	52	LEU	2.7
2	B	65	ALA	2.6
2	B	62	LEU	2.6
2	B	57	GLU	2.5
2	B	16	ASP	2.3
2	B	60	ASP	2.3
2	B	9	SER	2.3

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Mol	Chain	Res	Type	RSRZ
2	B	58	LEU	2.3
2	B	56	LYS	2.1
2	B	39	ASP	2.1
1	A	575	ASN	2.1
2	B	13	LYS	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 monosaccharides 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(\AA^2)	Q<0.9
5	GOL	B	1068	6/6	0.89	0.09	23,27,35,42	0
5	GOL	A	1580	6/6	0.97	0.15	8,13,16,17	0
5	GOL	B	1067	6/6	0.98	0.06	11,12,12,12	0
5	GOL	A	1581	6/6	0.98	0.15	10,13,15,16	0
5	GOL	A	1582	6/6	0.99	0.04	7,7,8,8	0
5	GOL	A	1583	6/6	0.99	0.05	7,8,8,9	0
3	CA	A	1578	1/1	1.00	0.03	6,6,6,6	0
4	ZN	A	1579	1/1	1.00	0.03	5,5,5,5	0
3	CA	A	1576	1/1	1.00	0.04	5,5,5,5	0
3	CA	A	1577	1/1	1.00	0.03	6,6,6,6	0

6.5 Other polymers [i](#)

There are no such residues in this entry.