



Full wwPDB X-ray Structure Validation Report ⓘ

Aug 21, 2020 – 07:58 AM BST

PDB ID : 4K6K
Title : Crystal structure of CALB mutant D223G from *Candida antarctica*
Authors : An, J.; Xie, Y.; Feng, Y.; Wu, G.
Deposited on : 2013-04-16
Resolution : 1.60 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 following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.13.1
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) : 2.13.1

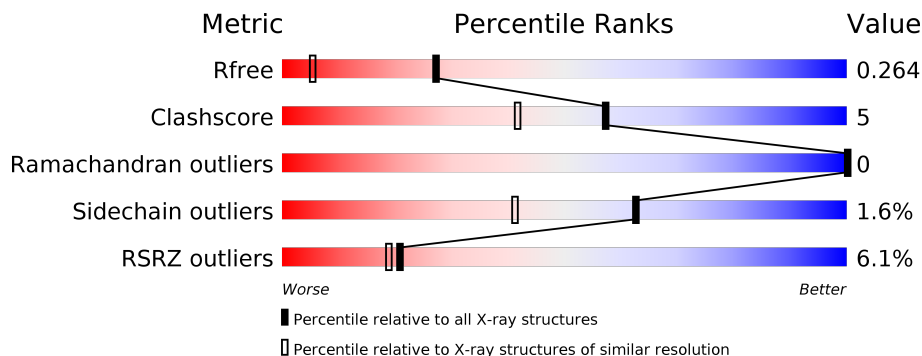
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.60 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	3398 (1.60-1.60)
Clashscore	141614	3665 (1.60-1.60)
Ramachandran outliers	138981	3564 (1.60-1.60)
Sidechain outliers	138945	3563 (1.60-1.60)
RSRZ outliers	127900	3321 (1.60-1.60)

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 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	326	 3% 88% 7% 5%
1	B	326	 9% 87% 9% 5%

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:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
2	EDO	A	403	-	-	X	-
2	EDO	A	406	-	-	X	X
2	EDO	A	408	-	-	X	-

2 Entry composition [i](#)

There are 3 unique types of molecules in this entry. The entry contains 4853 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 Lipase B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	311	2282	1447	383	442	10	0	0	0
1	B	312	2289	1453	383	443	10	0	0	0

There are 20 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	0	ALA	-	EXPRESSION TAG	UNP P41365
A	223	GLY	ASP	ENGINEERED MUTATION	UNP P41365
A	318	LEU	-	EXPRESSION TAG	UNP P41365
A	319	GLU	-	EXPRESSION TAG	UNP P41365
A	320	HIS	-	EXPRESSION TAG	UNP P41365
A	321	HIS	-	EXPRESSION TAG	UNP P41365
A	322	HIS	-	EXPRESSION TAG	UNP P41365
A	323	HIS	-	EXPRESSION TAG	UNP P41365
A	324	HIS	-	EXPRESSION TAG	UNP P41365
A	325	HIS	-	EXPRESSION TAG	UNP P41365
B	0	ALA	-	EXPRESSION TAG	UNP P41365
B	223	GLY	ASP	ENGINEERED MUTATION	UNP P41365
B	318	LEU	-	EXPRESSION TAG	UNP P41365
B	319	GLU	-	EXPRESSION TAG	UNP P41365
B	320	HIS	-	EXPRESSION TAG	UNP P41365
B	321	HIS	-	EXPRESSION TAG	UNP P41365
B	322	HIS	-	EXPRESSION TAG	UNP P41365
B	323	HIS	-	EXPRESSION TAG	UNP P41365
B	324	HIS	-	EXPRESSION TAG	UNP P41365
B	325	HIS	-	EXPRESSION TAG	UNP P41365

- Molecule 2 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: C₂H₆O₂).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total C O 4 2 2	0	0
2	A	1	Total C O 4 2 2	0	0
2	A	1	Total C O 4 2 2	0	0
2	A	1	Total C O 4 2 2	0	0
2	A	1	Total C O 4 2 2	0	0
2	A	1	Total C O 4 2 2	0	0
2	A	1	Total C O 4 2 2	0	0
2	A	1	Total C O 4 2 2	0	0
2	B	1	Total C O 4 2 2	0	0

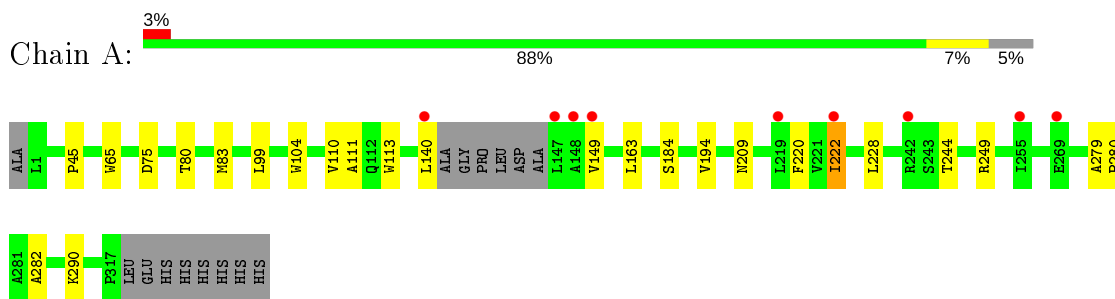
- Molecule 3 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	151	Total O 151 151	0	0
3	B	95	Total O 95 95	0	0

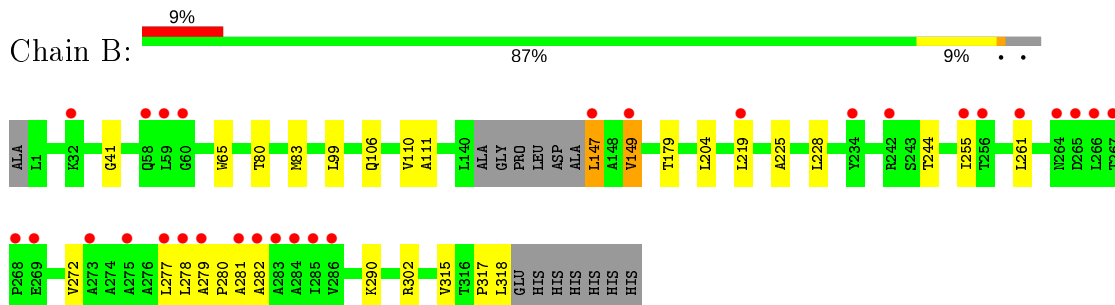
3 Residue-property plots [i](#)

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: Lipase B



- Molecule 1: Lipase B



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	46.71Å 87.09Å 138.87Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	50.00 – 1.60 41.55 – 1.60	Depositor EDS
% Data completeness (in resolution range)	94.1 (50.00-1.60) 94.2 (41.55-1.60)	Depositor EDS
R_{merge}	0.12	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.83 (at 1.60Å)	Xtrriage
Refinement program	REFMAC 5.6.0117	Depositor
R, R_{free}	0.235 , 0.266 0.235 , 0.264	Depositor DCC
R_{free} test set	3598 reflections (5.04%)	wwPDB-VP
Wilson B-factor (Å ²)	16.3	Xtrriage
Anisotropy	0.217	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 42.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.42$, $\langle L^2 \rangle = 0.25$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	4853	wwPDB-VP
Average B, all atoms (Å ²)	21.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 35.34 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 5.9242e-04.*

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: EDO

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	1/2339 (0.0%)	0.60	1/3210 (0.0%)
1	B	0.58	1/2346 (0.0%)	0.58	0/3219
All	All	0.56	2/4685 (0.0%)	0.59	1/6429 (0.0%)

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	113	TRP	CD2-CE2	5.20	1.47	1.41
1	B	65	TRP	CD2-CE2	5.01	1.47	1.41

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	75	ASP	CB-CG-OD2	-5.02	113.78	118.30

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	2282	0	2263	25	0
1	B	2289	0	2270	20	0
2	A	32	0	48	11	5

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	B	4	0	6	2	0
3	A	151	0	0	0	0
3	B	95	0	0	1	0
All	All	4853	0	4587	45	5

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 (45) 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)
2:A:406:EDO:O1	2:A:406:EDO:C1	1.81	1.26
1:A:149:VAL:HG21	1:B:272:VAL:HG22	1.60	0.84
1:A:83:MET:SD	1:A:111:ALA:HA	2.19	0.82
2:A:405:EDO:H12	2:A:408:EDO:O2	1.82	0.79
2:A:401:EDO:H22	2:A:402:EDO:H21	1.67	0.77
1:A:149:VAL:HG21	1:B:272:VAL:CG2	2.14	0.77
2:A:401:EDO:H22	2:A:402:EDO:C2	2.15	0.77
1:B:318:LEU:O	2:B:401:EDO:H22	1.88	0.73
1:A:244:THR:H	1:A:249:ARG:NH2	1.89	0.71
1:B:83:MET:SD	1:B:111:ALA:HA	2.32	0.69
1:B:317:PRO:O	2:B:401:EDO:H11	1.95	0.66
1:A:209:ASN:HD22	2:A:403:EDO:H11	1.58	0.66
1:A:149:VAL:HG23	1:A:290:LYS:HD3	1.81	0.63
1:B:228:LEU:HD23	1:B:277:LEU:HD21	1.83	0.60
1:A:220:PHE:CE2	1:A:222:ILE:HD12	2.38	0.58
1:A:279:ALA:HB3	1:A:280:PRO:HD3	1.87	0.57
1:A:220:PHE:HE2	1:A:222:ILE:HD12	1.71	0.55
2:A:405:EDO:C1	2:A:408:EDO:O2	2.52	0.55
1:A:244:THR:H	1:A:249:ARG:HH22	1.51	0.55
1:A:209:ASN:HD22	2:A:403:EDO:C1	2.21	0.54
1:A:209:ASN:ND2	2:A:403:EDO:H11	2.21	0.54
1:B:149:VAL:HG12	1:B:290:LYS:HD2	1.89	0.54
1:A:149:VAL:O	1:A:149:VAL:HG22	2.08	0.53
1:B:302:ARG:HG2	1:B:315:VAL:HG13	1.92	0.52
1:A:279:ALA:HB2	1:B:282:ALA:HB3	1.95	0.49
1:A:140:LEU:O	1:B:261:LEU:HD21	2.12	0.49
2:A:402:EDO:H12	2:A:407:EDO:O2	2.13	0.48
1:B:41:GLY:O	1:B:281:ALA:HA	2.13	0.48
1:A:194:VAL:HG21	1:B:219:LEU:HD23	1.97	0.47
1:A:149:VAL:HG21	1:B:272:VAL:HG21	1.95	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:279:ALA:HB3	1:B:280:PRO:HD3	1.95	0.46
1:B:179:THR:HG21	1:B:204:LEU:HD12	1.99	0.44
1:B:147:LEU:N	3:B:586:HOH:O	2.51	0.43
1:A:80:THR:HA	1:A:110:VAL:HG13	2.00	0.43
2:A:406:EDO:C2	2:A:406:EDO:O1	2.61	0.43
1:A:244:THR:OG1	1:A:249:ARG:NH2	2.52	0.43
1:B:106:GLN:O	1:B:106:GLN:HG2	2.19	0.43
1:B:225:ALA:HB2	1:B:278:LEU:CD2	2.49	0.43
1:B:80:THR:HA	1:B:110:VAL:HG13	2.02	0.42
1:A:222:ILE:HD13	1:A:222:ILE:N	2.35	0.42
1:A:282:ALA:HB3	1:B:279:ALA:HB2	2.01	0.42
1:A:209:ASN:HB2	2:A:403:EDO:H11	2.02	0.41
1:A:184:SER:HB2	1:A:222:ILE:HD11	2.03	0.40
1:A:104:TRP:HB2	1:A:228:LEU:HD13	2.03	0.40
1:A:45:PRO:HD3	1:A:65:TRP:CD1	2.57	0.40

All (5) 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)
2:A:406:EDO:O1	2:A:408:EDO:C2[4_555]	1.37	0.83
2:A:406:EDO:C1	2:A:408:EDO:C2[4_555]	1.57	0.63
2:A:406:EDO:O1	2:A:408:EDO:O2[4_555]	1.64	0.56
2:A:406:EDO:O2	2:A:408:EDO:O1[4_555]	2.08	0.12
2:A:406:EDO:O1	2:A:408:EDO:C1[4_555]	2.16	0.04

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	307/326 (94%)	297 (97%)	10 (3%)	0	100 100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	B	308/326 (94%)	299 (97%)	9 (3%)	0	100	100
All	All	615/652 (94%)	596 (97%)	19 (3%)	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	251/262 (96%)	248 (99%)	3 (1%)	71	54
1	B	251/262 (96%)	246 (98%)	5 (2%)	55	31
All	All	502/524 (96%)	494 (98%)	8 (2%)	62	41

All (8) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	99	LEU
1	A	163	LEU
1	A	222	ILE
1	B	99	LEU
1	B	147	LEU
1	B	149	VAL
1	B	244	THR
1	B	255	ILE

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (7) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	58	GLN
1	A	196	ASN
1	A	264	ASN
1	B	96	ASN
1	B	97	ASN

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Mol	Chain	Res	Type
1	B	196	ASN
1	B	264	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](#)

9 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	EDO	A	408	-	3,3,3	1.16	0	2,2,2	0.26	0
2	EDO	B	401	-	3,3,3	0.37	0	2,2,2	0.11	0
2	EDO	A	404	-	3,3,3	0.46	0	2,2,2	0.27	0
2	EDO	A	405	-	3,3,3	0.40	0	2,2,2	0.55	0
2	EDO	A	401	-	3,3,3	0.47	0	2,2,2	0.40	0
2	EDO	A	406	-	3,3,3	4.57	1 (33%)	2,2,2	1.20	0
2	EDO	A	407	-	3,3,3	0.48	0	2,2,2	0.13	0
2	EDO	A	402	-	3,3,3	0.56	0	2,2,2	0.38	0
2	EDO	A	403	-	3,3,3	0.30	0	2,2,2	0.54	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	EDO	A	408	-	-	1/1/1/1	-
2	EDO	B	401	-	-	0/1/1/1	-
2	EDO	A	404	-	-	1/1/1/1	-
2	EDO	A	405	-	-	1/1/1/1	-
2	EDO	A	401	-	-	1/1/1/1	-
2	EDO	A	406	-	-	1/1/1/1	-
2	EDO	A	407	-	-	1/1/1/1	-
2	EDO	A	402	-	-	1/1/1/1	-
2	EDO	A	403	-	-	1/1/1/1	-

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	406	EDO	O1-C1	7.63	1.81	1.42

There are no bond angle outliers.

There are no chirality outliers.

All (8) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	407	EDO	O1-C1-C2-O2
2	A	408	EDO	O1-C1-C2-O2
2	A	404	EDO	O1-C1-C2-O2
2	A	401	EDO	O1-C1-C2-O2
2	A	402	EDO	O1-C1-C2-O2
2	A	405	EDO	O1-C1-C2-O2
2	A	406	EDO	O1-C1-C2-O2
2	A	403	EDO	O1-C1-C2-O2

There are no ring outliers.

8 monomers are involved in 18 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	408	EDO	2	5
2	B	401	EDO	2	0
2	A	405	EDO	2	0
2	A	401	EDO	2	0
2	A	406	EDO	2	5

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	407	EDO	1	0
2	A	402	EDO	3	0
2	A	403	EDO	4	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	311/326 (95%)	0.20	9 (2%) 51 49	9, 16, 29, 43	0
1	B	312/326 (95%)	0.52	29 (9%) 8 7	12, 23, 42, 54	0
All	All	623/652 (95%)	0.36	38 (6%) 21 19	9, 19, 39, 54	0

All (38) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	147	LEU	6.9
1	A	149	VAL	6.3
1	A	147	LEU	6.2
1	B	149	VAL	5.7
1	B	282	ALA	5.2
1	B	286	VAL	4.3
1	A	269	GLU	4.1
1	B	269	GLU	4.0
1	B	242	ARG	3.7
1	B	285	ILE	3.6
1	B	58	GLN	3.5
1	B	266	LEU	3.4
1	A	148	ALA	3.4
1	B	219	LEU	3.3
1	B	277	LEU	3.0
1	B	275	ALA	2.9
1	B	256	THR	2.8
1	B	273	ALA	2.7
1	B	267	THR	2.6
1	B	278	LEU	2.6
1	B	255	ILE	2.5
1	B	261	LEU	2.5
1	B	59	LEU	2.5
1	B	60	GLY	2.4

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Mol	Chain	Res	Type	RSRZ
1	B	281	ALA	2.4
1	B	264	ASN	2.4
1	B	284	ALA	2.3
1	A	219	LEU	2.3
1	A	140	LEU	2.2
1	B	234	TYR	2.2
1	B	283	ALA	2.2
1	A	222	ILE	2.1
1	A	255	ILE	2.1
1	A	242	ARG	2.1
1	B	265	ASP	2.0
1	B	268	PRO	2.0
1	B	279	ALA	2.0
1	B	32	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(Å ²)	Q<0.9
2	EDO	A	402	4/4	0.50	0.18	28,31,31,32	0
2	EDO	A	406	4/4	0.61	0.55	53,53,54,54	0
2	EDO	A	401	4/4	0.69	0.18	23,24,24,25	0
2	EDO	A	405	4/4	0.70	0.23	30,30,30,32	0
2	EDO	A	408	4/4	0.74	0.22	29,29,30,30	0
2	EDO	B	401	4/4	0.78	0.16	22,22,23,24	0
2	EDO	A	403	4/4	0.83	0.19	21,22,22,22	0
2	EDO	A	407	4/4	0.86	0.13	33,34,34,34	0
2	EDO	A	404	4/4	0.90	0.12	28,29,29,30	0

6.5 Other polymers

There are no such residues in this entry.