



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 9, 2018 – 05:38 pm GMT

PDB ID : 2B08
Title : Reduced acetamide-bound M150G Nitrite Reductase from *Alcaligenes faecalis*
Authors : Wijma, H.J.; MacPherson, I.S.; Farver, O.; Tocheva, E.I.; Pecht, I.; Verbeet, M.Ph.; Murphy, M.E.P.; Canters, G.W.
Deposited on : 2005-09-13
Resolution : 1.90 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 : 1.7.3 (157068), CSD as539be (2018)
Xtriage (Phenix) : 1.13
EDS : trunk30967
Percentile statistics : 20171227.v01 (using entries in the PDB archive December 27th 2017)
Refmac : 5.8.0158
CCP4 : 7.0 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : trunk30967

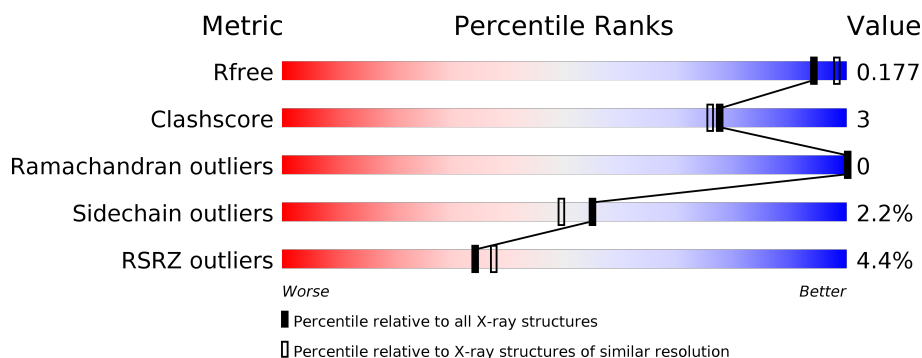
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.90 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}	111664	5502 (1.90-1.90)
Clashscore	122126	6115 (1.90-1.90)
Ramachandran outliers	120053	6048 (1.90-1.90)
Sidechain outliers	120020	6048 (1.90-1.90)
RSRZ outliers	108989	5379 (1.90-1.90)

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	340	<div> <div>4%</div> <div>91%</div> <div>7% ..</div> </div>
1	B	340	<div> <div>2%</div> <div>92%</div> <div>6% ..</div> </div>
1	C	340	<div> <div>7%</div> <div>89%</div> <div>9% ..</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:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
3	ACM	A	1504	-	-	X	-

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 8557 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 Copper-containing nitrite reductase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	335	Total	C	N	O	S	0	0	0
			2551	1633	429	479	10			
1	B	336	Total	C	N	O	S	0	0	0
			2556	1636	430	480	10			
1	C	336	Total	C	N	O	S	0	0	0
			2556	1636	430	480	10			

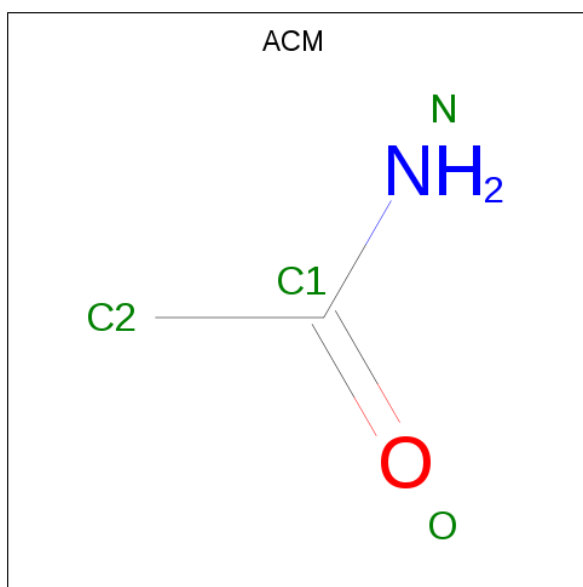
There are 3 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	150	GLY	MET	ENGINEERED	UNP P38501
B	150	GLY	MET	ENGINEERED	UNP P38501
C	150	GLY	MET	ENGINEERED	UNP P38501

- Molecule 2 is COPPER (I) ION (three-letter code: CU1) (formula: Cu).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	B	3	Total	Cu	0	0
			3	3		
2	A	3	Total	Cu	0	0
			3	3		
2	C	3	Total	Cu	0	0
			3	3		

- Molecule 3 is ACETAMIDE (three-letter code: ACM) (formula: C₂H₅NO).



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

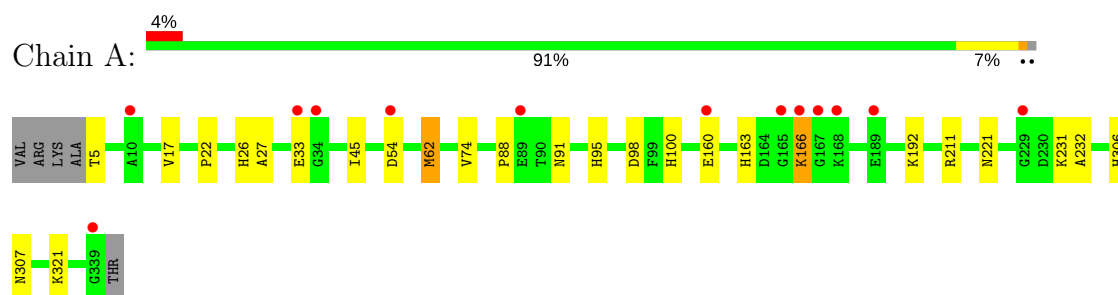
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	305	Total	O	0	0
			305	305		
4	B	302	Total	O	0	0
			302	302		
4	C	262	Total	O	0	0
			262	262		

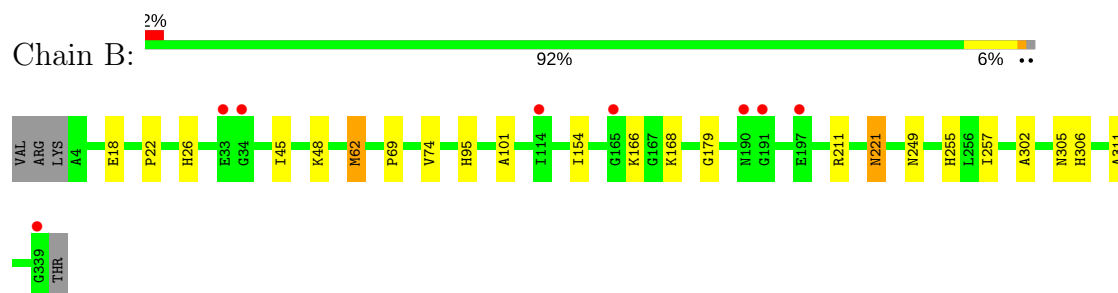
3 Residue-property plots [i](#)

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.

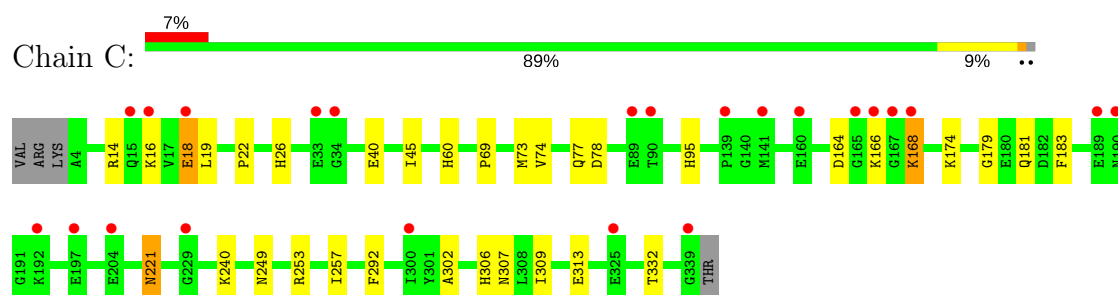
- Molecule 1: Copper-containing nitrite reductase



- Molecule 1: Copper-containing nitrite reductase



- Molecule 1: Copper-containing nitrite reductase



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	60.97Å 102.05Å 146.42Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	84.52 – 1.90 17.10 – 1.90	Depositor EDS
% Data completeness (in resolution range)	94.7 (84.52-1.90) 94.8 (17.10-1.90)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.99 (at 1.90Å)	Xtriage
Refinement program	REFMAC 5.2.0005	Depositor
R, R_{free}	0.177 , 0.220 0.178 , 0.177	Depositor DCC
R_{free} test set	3474 reflections (5.04%)	wwPDB-VP
Wilson B-factor (Å ²)	28.9	Xtriage
Anisotropy	0.075	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.38 , 48.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	8557	wwPDB-VP
Average B, all atoms (Å ²)	28.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.16% 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: ACM, CU1

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	0.66	0/2622	0.66	1/3576 (0.0%)
1	B	0.64	0/2627	0.66	0/3583
1	C	0.57	0/2627	0.63	0/3583
All	All	0.62	0/7876	0.65	1/10742 (0.0%)

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	1
1	B	0	1
1	C	0	1
All	All	0	3

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	98	ASP	CB-CG-OD2	5.05	122.85	118.30

There are no chirality outliers.

All (3) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	306	HIS	Peptide
1	B	306	HIS	Peptide
1	C	306	HIS	Peptide

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	2551	0	2473	18	0
1	B	2556	0	2479	12	0
1	C	2556	0	2479	20	0
2	A	3	0	0	0	0
2	B	3	0	0	0	0
2	C	3	0	0	0	0
3	A	8	0	10	2	0
3	B	4	0	5	0	0
3	C	4	0	5	0	0
4	A	305	0	0	5	1
4	B	302	0	0	2	0
4	C	262	0	0	1	1
All	All	8557	0	7451	49	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 3.

All (49) 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:C:22:PRO:HB2	1:C:221:ASN:HD21	1.44	0.81
1:B:26:HIS:HE1	1:B:74:VAL:H	1.34	0.76
1:C:26:HIS:CE1	1:C:74:VAL:H	2.11	0.69
1:C:26:HIS:HE1	1:C:74:VAL:H	1.39	0.69
1:B:26:HIS:CE1	1:B:74:VAL:H	2.14	0.65
1:A:26:HIS:HE1	1:A:74:VAL:H	1.45	0.63
1:B:257:ILE:HD12	1:B:302:ALA:HB3	1.82	0.62
1:B:22:PRO:HB2	1:B:221:ASN:HD21	1.65	0.61
1:C:22:PRO:HB2	1:C:221:ASN:ND2	2.16	0.61
1:C:45:ILE:HD13	1:C:95:HIS:HB2	1.84	0.59
1:C:69:PRO:HG3	1:C:179:GLY:HA3	1.86	0.57
1:C:18:GLU:CD	1:C:18:GLU:H	2.10	0.55
1:A:26:HIS:CE1	1:A:74:VAL:H	2.26	0.53
1:A:62:MET:HG3	1:A:95:HIS:CE1	2.43	0.53
1:A:307:ASN:HA	1:C:249:ASN:O	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:211:ARG:HD3	4:B:2783:HOH:O	2.09	0.53
3:A:1504:ACM:H22	4:A:1558:HOH:O	2.07	0.52
1:B:211:ARG:NH1	4:B:2589:HOH:O	2.42	0.52
1:B:69:PRO:HG3	1:B:179:GLY:HA3	1.92	0.52
1:C:257:ILE:HD12	1:C:302:ALA:HB3	1.93	0.51
1:A:26:HIS:HD2	1:A:27:ALA:O	1.94	0.51
1:A:5:THR:N	4:A:1810:HOH:O	2.45	0.50
1:A:160:GLU:CG	1:A:163:HIS:HE1	2.26	0.49
1:A:22:PRO:HB2	1:A:221:ASN:HD21	1.77	0.49
1:C:69:PRO:HD2	1:C:221:ASN:HD22	1.79	0.48
1:B:45:ILE:HD13	1:B:95:HIS:HB2	1.96	0.47
1:A:232:ALA:HB3	1:A:321:LYS:HE2	1.96	0.47
1:C:164:ASP:OD2	1:C:168:LYS:HG3	2.16	0.46
1:C:19:LEU:HD21	1:C:73:MET:HG2	1.98	0.45
1:B:305:ASN:O	1:B:311:ALA:HB2	2.16	0.45
1:A:54:ASP:HB3	4:A:1789:HOH:O	2.17	0.45
1:C:60:HIS:HD2	4:C:3630:HOH:O	2.00	0.44
1:A:100:HIS:CE1	1:B:255:HIS:CE1	3.06	0.44
1:A:166:LYS:HE3	1:A:166:LYS:N	2.32	0.44
1:B:249:ASN:O	1:C:307:ASN:HA	2.18	0.44
1:A:88:PRO:HD2	1:A:91:ASN:ND2	2.33	0.43
1:A:45:ILE:HD13	1:A:95:HIS:HB2	1.99	0.43
1:C:240:LYS:HB3	1:C:292:PHE:CZ	2.54	0.43
1:C:77:GLN:O	1:C:78:ASP:HB2	2.19	0.43
1:A:231:LYS:NZ	4:A:1761:HOH:O	2.51	0.42
1:A:17:VAL:HG11	1:A:26:HIS:CD2	2.54	0.42
3:A:1504:ACM:H23	4:A:1717:HOH:O	2.19	0.42
1:B:101:ALA:CB	1:B:154:ILE:HD11	2.50	0.41
1:B:62:MET:HG3	1:B:95:HIS:CE1	2.55	0.41
1:A:22:PRO:HB2	1:A:221:ASN:ND2	2.35	0.41
1:C:174:LYS:HB3	1:C:174:LYS:HE2	1.83	0.41
1:C:16:LYS:HG2	1:C:40:GLU:OE1	2.20	0.41
1:C:181:GLN:HG2	1:C:183:PHE:CZ	2.56	0.40
1:C:309:ILE:O	1:C:313:GLU:HB2	2.22	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)
4:A:1516:HOH:O	4:C:3525:HOH:O[3_545]	1.96	0.24

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	333/340 (98%)	328 (98%)	5 (2%)	0	100	100
1	B	334/340 (98%)	329 (98%)	5 (2%)	0	100	100
1	C	334/340 (98%)	331 (99%)	3 (1%)	0	100	100
All	All	1001/1020 (98%)	988 (99%)	13 (1%)	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	263/267 (98%)	259 (98%)	4 (2%)	67	65
1	B	263/267 (98%)	257 (98%)	6 (2%)	53	47
1	C	263/267 (98%)	256 (97%)	7 (3%)	48	40
All	All	789/801 (98%)	772 (98%)	17 (2%)	55	49

All (17) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	33	GLU
1	A	62	MET
1	A	166	LYS
1	A	192	LYS
1	B	18	GLU

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Mol	Chain	Res	Type
1	B	48	LYS
1	B	62	MET
1	B	166	LYS
1	B	168	LYS
1	B	221	ASN
1	C	14	ARG
1	C	18	GLU
1	C	166	LYS
1	C	168	LYS
1	C	221	ASN
1	C	253	ARG
1	C	332	THR

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (17) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	15	GLN
1	A	26	HIS
1	A	77	GLN
1	A	163	HIS
1	A	221	ASN
1	B	26	HIS
1	B	77	GLN
1	B	115	ASN
1	B	163	HIS
1	B	221	ASN
1	C	26	HIS
1	C	60	HIS
1	C	77	GLN
1	C	115	ASN
1	C	163	HIS
1	C	221	ASN
1	C	296	GLN

5.3.3 RNA ⓘ

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 carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 13 ligands modelled in this entry, 9 are monoatomic - leaving 4 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	$\# Z > 2$
3	ACM	A	1503	-	3,3,3	0.52	0	3,3,3	0.64	0
3	ACM	A	1504	-	3,3,3	0.55	0	3,3,3	0.26	0
3	ACM	B	2503	-	3,3,3	0.70	0	3,3,3	0.76	0
3	ACM	C	3503	-	3,3,3	0.51	0	3,3,3	0.56	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	ACM	A	1503	-	-	0/0/0/0	0/0/0/0
3	ACM	A	1504	-	-	0/0/0/0	0/0/0/0
3	ACM	B	2503	-	-	0/0/0/0	0/0/0/0
3	ACM	C	3503	-	-	0/0/0/0	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 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	1504	ACM	2	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	335/340 (98%)	-0.02	13 (3%) 39 43	16, 23, 38, 52	0
1	B	336/340 (98%)	-0.08	8 (2%) 59 62	17, 24, 39, 46	0
1	C	336/340 (98%)	0.24	23 (6%) 17 20	19, 30, 42, 50	0
All	All	1007/1020 (98%)	0.05	44 (4%) 34 37	16, 26, 40, 52	0

All (44) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	34	GLY	6.5
1	A	339	GLY	5.6
1	B	197	GLU	4.8
1	B	33	GLU	4.3
1	C	33	GLU	3.9
1	A	166	LYS	3.7
1	C	189	GLU	3.5
1	C	16	LYS	3.4
1	C	18	GLU	3.4
1	C	89	GLU	3.2
1	B	34	GLY	3.1
1	C	190	ASN	3.0
1	C	166	LYS	3.0
1	A	167	GLY	3.0
1	C	339	GLY	2.8
1	A	54	ASP	2.7
1	C	160	GLU	2.6
1	A	189	GLU	2.6
1	C	139	PRO	2.5
1	C	204	GLU	2.5
1	C	141	MET	2.4
1	A	89	GLU	2.4
1	C	197	GLU	2.4

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Mol	Chain	Res	Type	RSRZ
1	A	34	GLY	2.4
1	A	168	LYS	2.4
1	A	33	GLU	2.4
1	C	168	LYS	2.3
1	A	165	GLY	2.3
1	C	229	GLY	2.3
1	C	90	THR	2.3
1	C	167	GLY	2.2
1	C	165	GLY	2.2
1	C	15	GLN	2.2
1	A	10	ALA	2.2
1	B	339	GLY	2.2
1	B	190	ASN	2.1
1	A	160	GLU	2.1
1	B	114	ILE	2.1
1	B	165	GLY	2.1
1	C	192	LYS	2.1
1	C	300	ILE	2.1
1	A	229	GLY	2.1
1	C	325	GLU	2.0
1	B	191	GLY	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 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. 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
3	ACM	B	2503	4/4	0.85	0.26	47,47,47,48	0
3	ACM	A	1503	4/4	0.88	0.19	33,34,34,34	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
3	ACM	A	1504	4/4	0.90	0.14	62,62,62,62	0
3	ACM	C	3503	4/4	0.91	0.17	43,43,43,43	0
2	CU1	A	1506	1/1	0.93	0.09	36,36,36,36	1
2	CU1	B	2505	1/1	0.96	0.11	33,33,33,33	1
2	CU1	C	3505	1/1	0.97	0.09	44,44,44,44	1
2	CU1	C	3501	1/1	0.98	0.04	42,42,42,42	0
2	CU1	B	2501	1/1	0.99	0.03	35,35,35,35	0
2	CU1	A	1501	1/1	1.00	0.05	29,29,29,29	0
2	CU1	B	2502	1/1	1.00	0.04	25,25,25,25	0
2	CU1	A	1502	1/1	1.00	0.04	20,20,20,20	0
2	CU1	C	3502	1/1	1.00	0.03	26,26,26,26	0

6.5 Other polymers [i](#)

There are no such residues in this entry.