



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 6, 2026 – 08:56 AM UTC

PDB ID : 7H31 / pdb_00007h31
Title : Group deposition for crystallographic fragment screening of Coxsackievirus A16 (G-10) 2A protease – Crystal structure of Coxsackievirus A16 (G-10) 2A protease in complex with Z438067480 (A71EV2A-x0239)
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Deposited on : 2024-04-04
Resolution : 1.53 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

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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)

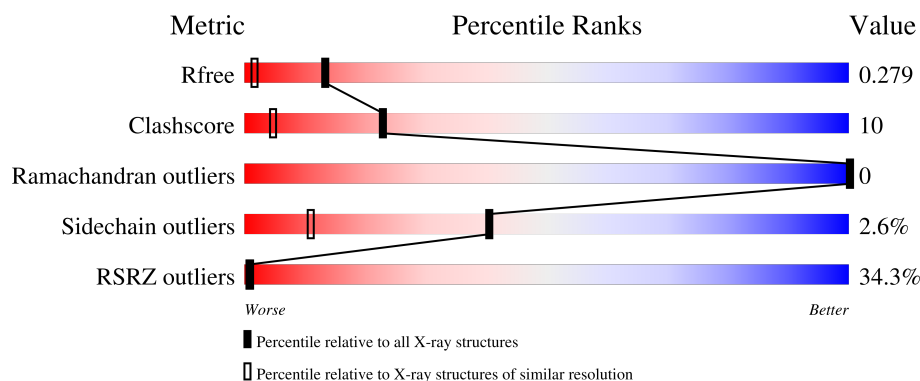
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.53 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	1003 (1.54-1.54)
Clashscore	190562	1025 (1.54-1.54)
Ramachandran outliers	187476	1007 (1.54-1.54)
Sidechain outliers	187428	1007 (1.54-1.54)
RSRZ outliers	180081	1002 (1.54-1.54)

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	150	32% 75% 14% 7%

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:

Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
4	DMS	A	203	-	-	X	-
5	SO4	A	208	-	-	X	-

2 Entry composition [i](#)

There are 6 unique types of molecules in this entry. The entry contains 1377 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.

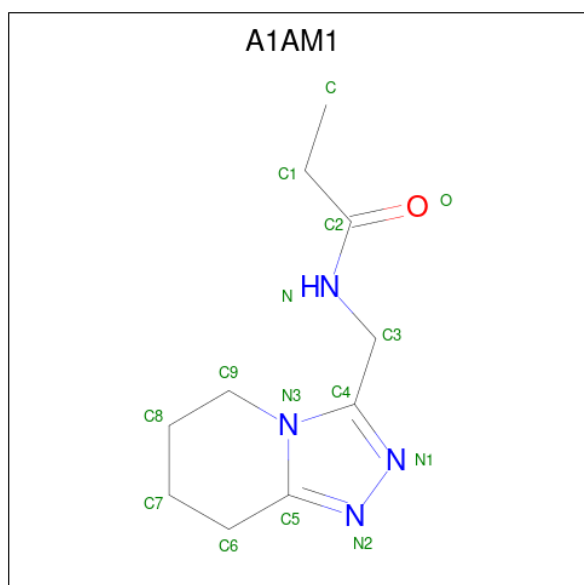
- Molecule 1 is a protein called Protease 2A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	140	1103	686	196	214	7	0	3	0

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1	GLN	-	expression tag	UNP Q65900
A	2	GLU	-	expression tag	UNP Q65900
A	3	GLN	-	expression tag	UNP Q65900
A	4	THR	-	expression tag	UNP Q65900
A	5	GLY	-	expression tag	UNP Q65900
A	6	GLY	-	expression tag	UNP Q65900

- Molecule 2 is N-{[(4R)-5,6,7,8-tetrahydro[1,2,4]triazolo[4,3-a]pyridin-3-yl]methyl}propanamide (CCD ID: A1AM1) (formula: C₁₀H₁₆N₄O).

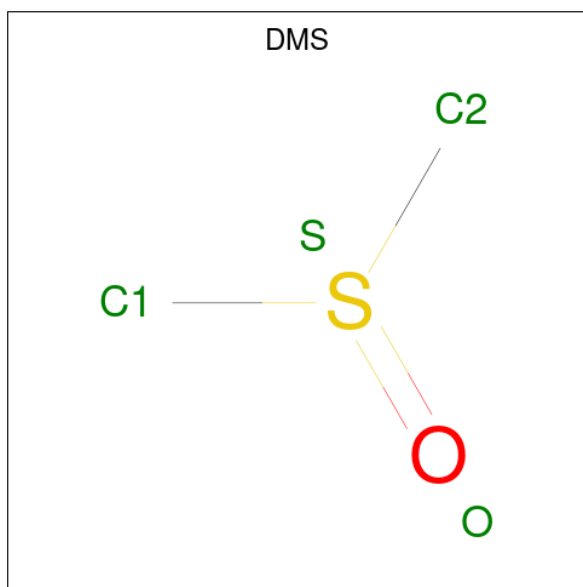


Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	C	N	O	0	0
			15	10	4	1		

- Molecule 3 is ZINC ION (CCD ID: ZN) (formula: Zn).

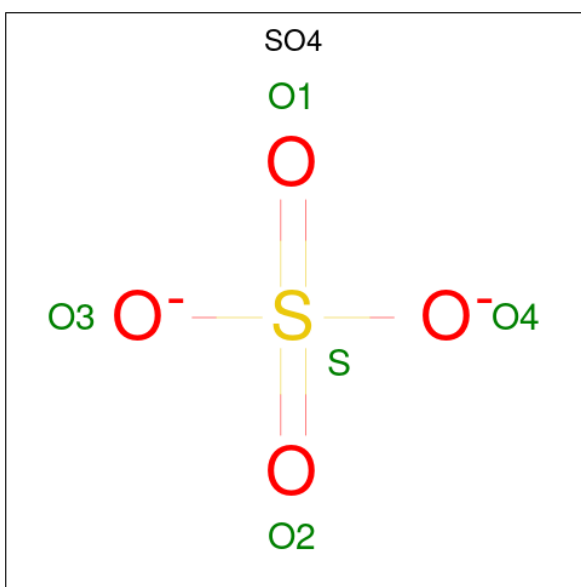
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	1	Total	Zn	0	0
			1	1		

- Molecule 4 is DIMETHYL SULFOXIDE (CCD ID: DMS) (formula: C₂H₆OS).



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

- Molecule 5 is SULFATE ION (CCD ID: SO4) (formula: O₄S).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	A	1	Total	O	S	0	0
			5	4	1		

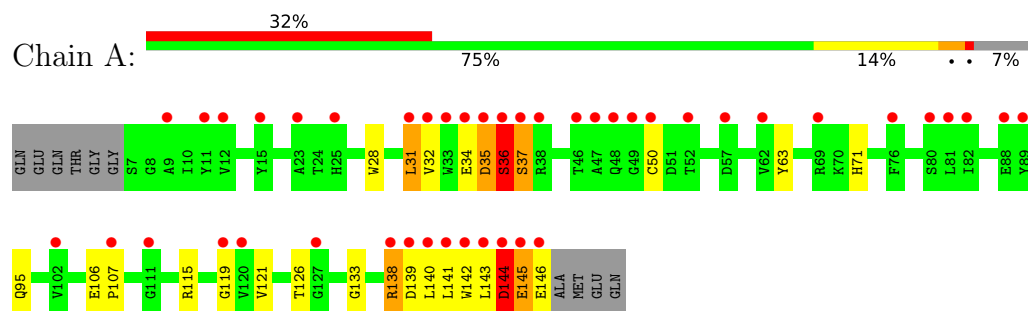
- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	233	Total	O	0	0
			233	233		

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: Protease 2A



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	86.62Å 56.42Å 32.55Å 90.00° 95.26° 90.00°	Depositor
Resolution (Å)	32.43 – 1.53 32.43 – 1.53	Depositor EDS
% Data completeness (in resolution range)	96.8 (32.43-1.53) 96.7 (32.43-1.53)	Depositor EDS
R_{merge}	0.17	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.49 (at 1.53Å)	Xtriage
Refinement program	REFMAC 5.8.0267, REFMAC5	Depositor
R, R_{free}	0.247 , 0.268 0.270 , 0.279	Depositor DCC
R_{free} test set	1210 reflections (5.11%)	wwPDB-VP
Wilson B-factor (Å ²)	15.0	Xtriage
Anisotropy	0.181	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.29 , 45.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.52$, $\langle L^2 \rangle = 0.35$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.90	EDS
Total number of atoms	1377	wwPDB-VP
Average B, all atoms (Å ²)	25.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 13.35% 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: SO4, ZN, A1AM1, DMS

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	1.78	14/1129 (1.2%)	1.65	25/1535 (1.6%)

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	2

All (14) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	36[A]	SER	CA-C	20.52	1.81	1.52
1	A	36[B]	SER	CA-C	20.52	1.81	1.52
1	A	36[A]	SER	N-CA	-13.89	1.28	1.46
1	A	36[B]	SER	N-CA	-13.89	1.28	1.46
1	A	140	LEU	C-O	-12.34	1.07	1.23
1	A	141	LEU	C-O	-10.82	1.09	1.24
1	A	142	TRP	C-O	-9.62	1.11	1.24
1	A	37	SER	C-O	-8.74	1.12	1.24
1	A	138	ARG	NE-CZ	-8.73	1.23	1.33
1	A	144	ASP	CG-OD1	-7.85	1.10	1.25
1	A	139	ASP	C-O	-7.58	1.14	1.24
1	A	143	LEU	C-O	-6.56	1.15	1.24
1	A	34	GLU	C-O	-5.83	1.16	1.23
1	A	145	GLU	CD-OE1	-5.17	1.15	1.25

All (25) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	144	ASP	CA-CB-CG	16.48	129.08	112.60
1	A	36[A]	SER	CA-C-O	-13.84	104.70	120.20
1	A	36[B]	SER	CA-C-O	-13.84	104.70	120.20
1	A	143	LEU	CA-C-N	7.39	134.47	122.14
1	A	143	LEU	C-N-CA	7.39	134.47	122.14
1	A	35	ASP	CA-C-N	7.19	130.87	120.38
1	A	35	ASP	C-N-CA	7.19	130.87	120.38
1	A	36[A]	SER	N-CA-C	7.12	120.87	111.75
1	A	36[B]	SER	N-CA-C	7.12	120.87	111.75
1	A	34	GLU	CA-C-N	7.09	132.65	121.72
1	A	34	GLU	C-N-CA	7.09	132.65	121.72
1	A	138	ARG	CG-CD-NE	-6.82	97.00	112.00
1	A	138	ARG	NE-CZ-NH1	-5.98	115.52	121.50
1	A	145	GLU	N-CA-C	5.82	123.20	110.80
1	A	35	ASP	CB-CA-C	5.77	118.98	111.42
1	A	36[A]	SER	CA-C-N	-5.70	111.16	121.14
1	A	36[A]	SER	C-N-CA	-5.70	111.16	121.14
1	A	36[B]	SER	CA-C-N	-5.70	111.16	121.14
1	A	36[B]	SER	C-N-CA	-5.70	111.16	121.14
1	A	31	LEU	CA-C-N	-5.67	116.82	122.77
1	A	31	LEU	C-N-CA	-5.67	116.82	122.77
1	A	141	LEU	CA-C-N	5.54	131.29	120.99
1	A	141	LEU	C-N-CA	5.54	131.29	120.99
1	A	32	VAL	N-CA-C	-5.52	107.48	112.12
1	A	32	VAL	CA-CB-CG2	5.36	119.51	110.40

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	36[A]	SER	Mainchain
1	A	36[B]	SER	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	1103	0	1034	19	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	A	15	0	0	0	0
3	A	1	0	0	0	0
4	A	20	0	30	6	0
5	A	5	0	0	0	5
6	A	233	0	0	10	1
All	All	1377	0	1064	23	6

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 10.

All (23) 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:36[B]:SER:CA	1:A:36[B]:SER:C	1.81	1.54
1:A:36[A]:SER:CA	1:A:36[A]:SER:C	1.81	1.54
1:A:50:CYS:HB2	6:A:368:HOH:O	1.71	0.89
1:A:36[B]:SER:C	1:A:36[B]:SER:CB	2.56	0.78
1:A:36[A]:SER:C	1:A:36[A]:SER:CB	2.57	0.77
1:A:145:GLU:OE1	6:A:301:HOH:O	2.14	0.64
1:A:36[A]:SER:CA	1:A:36[A]:SER:O	2.42	0.60
1:A:36[B]:SER:CA	1:A:36[B]:SER:O	2.42	0.60
1:A:144:ASP:OD2	6:A:302:HOH:O	2.18	0.55
4:A:207:DMS:H21	6:A:358:HOH:O	2.08	0.54
1:A:119:GLY:HA2	4:A:203:DMS:H21	1.92	0.51
1:A:94:TYR:OH	6:A:304:HOH:O	2.20	0.48
4:A:203:DMS:H21	6:A:371:HOH:O	2.14	0.47
1:A:37:SER:O	1:A:95:GLN:HG3	2.15	0.47
4:A:203:DMS:C2	6:A:371:HOH:O	2.64	0.45
1:A:115:ARG:HD3	6:A:371:HOH:O	2.16	0.45
1:A:121:VAL:HG13	1:A:138:ARG:NE	2.33	0.43
1:A:106:GLU:OE1	6:A:305:HOH:O	2.21	0.43
1:A:35:ASP:OD2	4:A:204:DMS:S	2.77	0.42
1:A:28:TRP:CE3	1:A:31:LEU:HD22	2.54	0.42
1:A:126:THR:OG1	1:A:133:GLY:HA3	2.20	0.42
4:A:203:DMS:H22	6:A:357:HOH:O	2.19	0.41
1:A:63:TYR:O	1:A:71:HIS:HA	2.22	0.40

All (6) 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)
5:A:208:SO4:O3	5:A:208:SO4:O4[2_556]	0.71	1.49
5:A:208:SO4:S	5:A:208:SO4:O3[2_556]	1.63	0.57
6:A:527:HOH:O	6:A:528:HOH:O[4_556]	1.97	0.23
5:A:208:SO4:S	5:A:208:SO4:O4[2_556]	2.05	0.15
5:A:208:SO4:S	5:A:208:SO4:S[2_556]	2.05	0.15
5:A:208:SO4:O3	5:A:208:SO4:O3[2_556]	2.09	0.11

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	141/150 (94%)	137 (97%)	4 (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	120/124 (97%)	117 (98%)	3 (2%)	42	12

All (3) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	107	PRO
1	A	144	ASP
1	A	146	GLU

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	14	ASN
1	A	71	HIS

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 oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 8 ligands modelled in this entry, 1 is monoatomic - leaving 7 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	$\# Z > 2$
4	DMS	A	204	-	3,3,3	0.34	0	3,3,3	0.10	0
4	DMS	A	207	-	3,3,3	0.22	0	3,3,3	0.13	0
4	DMS	A	203	-	3,3,3	0.29	0	3,3,3	0.32	0
2	A1AM1	A	201	-	16,16,16	1.78	5 (31%)	17,21,21	2.33	6 (35%)
4	DMS	A	206	-	3,3,3	0.23	0	3,3,3	0.08	0
4	DMS	A	205	-	3,3,3	0.24	0	3,3,3	0.13	0
5	SO4	A	208	-	4,4,4	0.34	0	6,6,6	0.08	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
2	A1AM1	A	201	-	-	2/7/14/14	0/2/2/2

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	201	A1AM1	C5-N3	-3.44	1.31	1.37
2	A	201	A1AM1	C7-C6	-2.95	1.42	1.52
2	A	201	A1AM1	C-C1	-2.78	1.39	1.51
2	A	201	A1AM1	O-C2	-2.34	1.18	1.23
2	A	201	A1AM1	C6-C5	-2.15	1.47	1.50

All (6) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	201	A1AM1	C9-N3-C4	6.54	132.33	124.36
2	A	201	A1AM1	C7-C6-C5	-4.09	100.60	113.15
2	A	201	A1AM1	C9-N3-C5	-2.29	121.54	125.08
2	A	201	A1AM1	C1-C2-N	2.23	118.12	115.75
2	A	201	A1AM1	C4-C3-N	-2.17	107.33	111.34
2	A	201	A1AM1	C8-C7-C6	-2.01	104.86	112.64

There are no chirality outliers.

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	201	A1AM1	C-C1-C2-O
2	A	201	A1AM1	C-C1-C2-N

There are no ring outliers.

4 monomers are involved in 11 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	A	204	DMS	1	0
4	A	207	DMS	1	0
4	A	203	DMS	4	0
5	A	208	SO4	0	5

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	140/150 (93%)	3.35	48 (34%) 1 1	3, 19, 30, 41	19 (13%)

All (48) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	142	TRP	21.7
1	A	33	TRP	21.2
1	A	32	VAL	20.2
1	A	140	LEU	19.3
1	A	141	LEU	18.9
1	A	143	LEU	18.2
1	A	31	LEU	17.8
1	A	144	ASP	15.9
1	A	139	ASP	14.7
1	A	145	GLU	14.4
1	A	57[A]	ASP	13.7
1	A	37	SER	13.6
1	A	146	GLU	13.2
1	A	38	ARG	13.1
1	A	138	ARG	13.0
1	A	36[A]	SER	12.9
1	A	35	ASP	11.9
1	A	34	GLU	9.5
1	A	80[A]	SER	9.0
1	A	50	CYS	5.7
1	A	88	GLU	5.2
1	A	94	TYR	4.0
1	A	111	GLY	3.7
1	A	47	ALA	3.5
1	A	119	GLY	3.4
1	A	25	HIS	3.3
1	A	81	LEU	3.2

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Mol	Chain	Res	Type	RSRZ
1	A	49	GLY	3.2
1	A	76	PHE	2.9
1	A	127	GLY	2.7
1	A	15	TYR	2.7
1	A	120	VAL	2.7
1	A	48	GLN	2.6
1	A	12	VAL	2.5
1	A	62	VAL	2.5
1	A	91	PRO	2.4
1	A	11	TYR	2.4
1	A	9	ALA	2.2
1	A	46	THR	2.2
1	A	102	VAL	2.2
1	A	23	ALA	2.1
1	A	92	ALA	2.1
1	A	107	PRO	2.1
1	A	82	ILE	2.1
1	A	89	TYR	2.1
1	A	52	THR	2.1
1	A	90	TYR	2.0
1	A	69	ARG	2.0

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

There are no non-standard protein/DNA/RNA residues in this entry.

6.3 Carbohydrates ⓘ

There are no oligosaccharides 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. 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($\text{\AA}^2$)	Q<0.9
2	A1AM1	A	201	15/15	0.66	0.25	20,20,20,20	15
4	DMS	A	205	4/4	0.67	0.29	69,73,80,81	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
4	DMS	A	206	4/4	0.72	0.25	56,59,61,63	0
4	DMS	A	204	4/4	0.75	0.19	41,55,55,58	0
4	DMS	A	203	4/4	0.78	0.18	44,45,48,56	0
5	SO4	A	208	5/5	0.83	0.13	53,55,55,55	0
4	DMS	A	207	4/4	0.87	0.15	43,46,46,52	0
3	ZN	A	202	1/1	0.99	0.02	18,18,18,18	0

6.5 Other polymers [i](#)

There are no such residues in this entry.