



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 07:43 PM UTC

PDB ID : 2VNQ / pdb_00002vnq
Title : Monoclinic form of IDI-1
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Deposited on : 2008-02-06
Resolution : 2.20 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

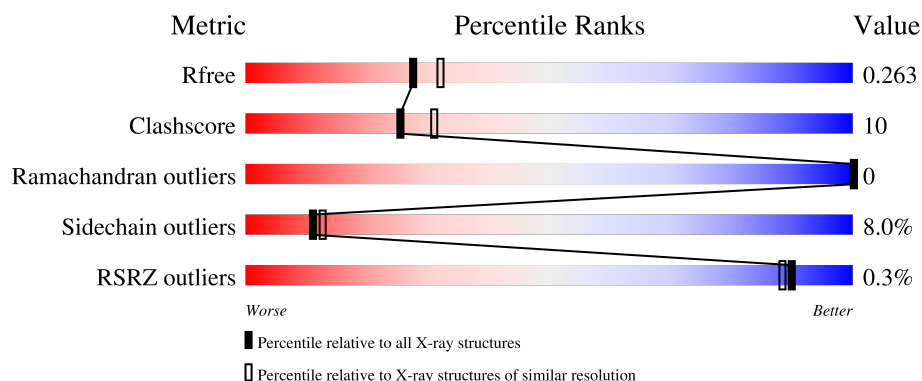
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.20 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	6164 (2.20-2.20)
Clashscore	190562	6851 (2.20-2.20)
Ramachandran outliers	187476	6768 (2.20-2.20)
Sidechain outliers	187428	6769 (2.20-2.20)
RSRZ outliers	180081	6166 (2.20-2.20)

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	183	 69% 23% . . .
1	B	183	 75% 17% 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:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
3	IMD	A	301	-	X	-	-
3	IMD	B	301	-	X	-	-

2 Entry composition [i](#)

There are 5 unique types of molecules in this entry. The entry contains 2915 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.

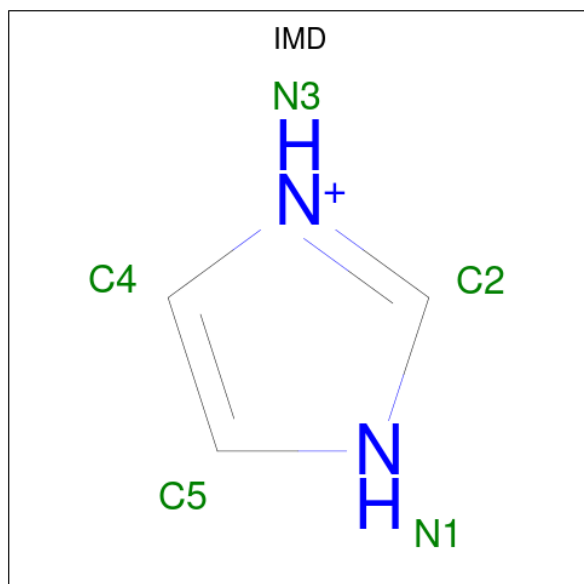
- Molecule 1 is a protein called ISOPENTENYL-DIPHOSPHATE DELTA-ISOMERASE.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	176	Total	C	N	O	S	0	1	0
			1396	883	246	259	8			
1	B	180	Total	C	N	O	S	0	0	0
			1428	904	252	265	7			

- Molecule 2 is MANGANESE (II) ION (CCD ID: MN) (formula: Mn).

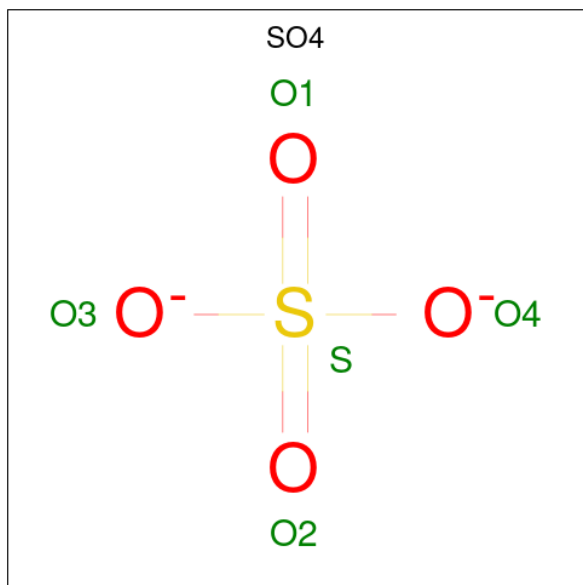
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	1	Total	Mn	0	0
			1	1		
2	B	1	Total	Mn	0	0
			1	1		

- Molecule 3 is IMIDAZOLE (CCD ID: IMD) (formula: C₃H₅N₂).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	C	N	0	0
			5	3	2		
3	B	1	Total	C	N	0	0
			5	3	2		

- Molecule 4 is SULFATE ION (CCD ID: SO4) (formula: O₄S).



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

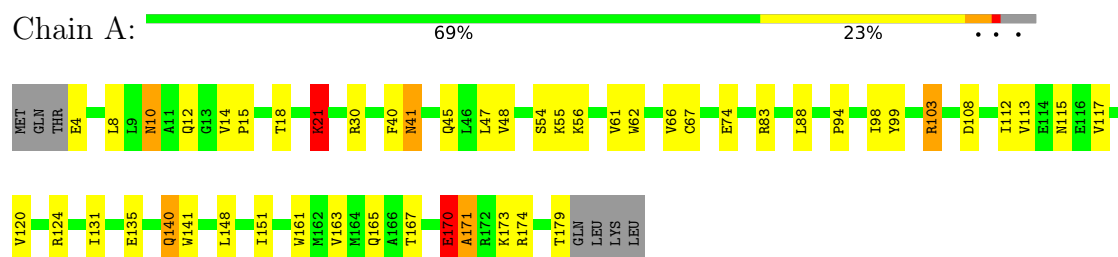
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	29	Total	O	0	0
			29	29		
5	B	40	Total	O	0	0
			40	40		

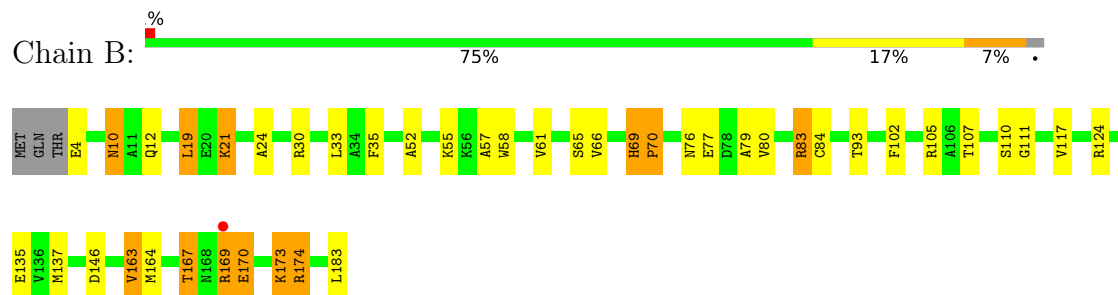
3 Residue-property plots

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: ISOPENTENYL-DIPHOSPHATE DELTA-ISOMERASE



• Molecule 1: ISOPENTENYL-DIPHOSPHATE DELTA-ISOMERASE



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	43.20Å 69.10Å 62.40Å 90.00° 100.30° 90.00°	Depositor
Resolution (Å)	33.50 – 2.20 33.50 – 2.20	Depositor EDS
% Data completeness (in resolution range)	98.3 (33.50-2.20) 98.3 (33.50-2.20)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.17 (at 2.20Å)	Xtriage
Refinement program	REFMAC 5.2.0019	Depositor
R, R_{free}	0.194 , 0.261 0.197 , 0.263	Depositor DCC
R_{free} test set	937 reflections (5.07%)	wwPDB-VP
Wilson B-factor (Å ²)	25.1	Xtriage
Anisotropy	0.213	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.40 , 35.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	2915	wwPDB-VP
Average B, all atoms (Å ²)	21.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.61% 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, MN, IMD

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	1.52	13/1436 (0.9%)	1.31	7/1960 (0.4%)
1	B	1.51	9/1465 (0.6%)	1.30	5/1997 (0.3%)
All	All	1.51	22/2901 (0.8%)	1.31	12/3957 (0.3%)

All (22) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	151	ILE	CA-CB	7.28	1.62	1.54
1	B	174	ARG	CZ-NH2	6.86	1.42	1.33
1	A	74	GLU	CA-C	-6.47	1.44	1.52
1	A	113	VAL	CA-C	6.34	1.60	1.52
1	A	170	GLU	N-CA	6.27	1.53	1.46
1	A	98	ILE	CA-CB	6.26	1.62	1.54
1	B	61	VAL	CA-CB	6.00	1.62	1.54
1	B	21	LYS	CD-CE	5.99	1.70	1.52
1	A	61	VAL	CA-CB	5.97	1.61	1.54
1	A	21	LYS	CE-NZ	5.97	1.67	1.49
1	B	167	THR	CA-CB	5.84	1.63	1.53
1	A	171	ALA	CA-C	5.81	1.60	1.52
1	B	146	ASP	C-O	5.80	1.30	1.24
1	A	117	VAL	C-O	5.55	1.30	1.24
1	A	148	LEU	C-O	-5.55	1.17	1.24
1	B	21	LYS	CG-CD	5.54	1.69	1.52
1	A	170	GLU	CB-CG	5.44	1.68	1.52
1	B	79	ALA	CA-CB	5.37	1.61	1.53
1	B	163	VAL	CA-CB	5.26	1.60	1.54
1	A	131	ILE	CA-CB	5.21	1.60	1.54
1	A	94	PRO	CA-C	5.10	1.56	1.52
1	B	70	PRO	CA-C	5.01	1.58	1.52

All (12) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	174	ARG	NE-CZ-NH1	-8.84	112.66	121.50
1	B	117	VAL	N-CA-C	-6.26	98.19	107.51
1	B	21	LYS	CD-CE-NZ	6.20	131.74	111.90
1	A	94	PRO	CA-C-N	-5.50	114.29	119.90
1	A	94	PRO	C-N-CA	-5.50	114.29	119.90
1	B	69	HIS	CA-C-N	-5.39	114.23	119.78
1	B	69	HIS	C-N-CA	-5.39	114.23	119.78
1	A	48	VAL	CB-CA-C	5.33	118.50	110.98
1	A	21	LYS	CD-CE-NZ	5.28	128.80	111.90
1	A	170	GLU	CB-CG-CD	5.26	121.55	112.60
1	A	54	SER	N-CA-C	5.16	119.43	113.18
1	A	62	TRP	N-CA-C	5.03	117.52	110.23

There are no chirality outliers.

There are no planarity outliers.

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	1396	0	1354	22	0
1	B	1428	0	1392	31	0
2	A	1	0	0	0	0
2	B	1	0	0	0	0
3	A	5	0	5	1	0
3	B	5	0	5	1	0
4	A	5	0	0	0	0
4	B	5	0	0	1	0
5	A	29	0	0	0	0
5	B	40	0	0	3	0
All	All	2915	0	2756	54	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 10.

All (54) 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:B:21:LYS:HE3	1:B:69:HIS:HD1	1.29	0.98
1:A:163:VAL:O	1:A:167:THR:HG23	1.64	0.97
1:B:21:LYS:HE3	1:B:69:HIS:ND1	1.82	0.94
1:B:21:LYS:CE	1:B:69:HIS:HD1	1.89	0.84
1:A:170:GLU:HG3	1:A:174:ARG:NH2	1.98	0.79
1:B:21:LYS:HE3	1:B:69:HIS:CE1	2.19	0.77
1:A:170:GLU:HG3	1:A:174:ARG:CZ	2.17	0.74
1:B:163:VAL:O	1:B:167:THR:HG23	1.90	0.71
1:B:169:ARG:NH1	1:B:173:LYS:HG2	2.06	0.70
1:B:33:LEU:HG	1:B:70:PRO:HG2	1.74	0.69
3:B:301:IMD:H5	4:B:401:SO4:O3	1.91	0.69
1:A:103:ARG:NH2	1:A:115:ASN:OD1	2.27	0.68
1:B:107:THR:CG2	1:B:111:GLY:HA2	2.25	0.66
1:A:41:ASN:O	1:A:124:ARG:NH1	2.32	0.62
1:B:55:LYS:NZ	1:B:135:GLU:OE1	2.26	0.61
1:A:67[B]:CYS:SG	3:A:301:IMD:C4	2.90	0.60
1:B:105:ARG:NH2	5:B:2024:HOH:O	2.34	0.59
1:A:161:TRP:O	1:A:165:GLN:HG3	2.04	0.58
1:B:170:GLU:O	1:B:173:LYS:HE2	2.03	0.57
1:A:10:ASN:HD21	1:A:14:VAL:HB	1.70	0.56
1:B:19:LEU:HD13	1:B:24:ALA:HA	1.87	0.55
1:A:66:VAL:HG23	1:A:88:LEU:HD11	1.89	0.55
1:B:169:ARG:HH11	1:B:173:LYS:HB3	1.73	0.54
1:A:41:ASN:ND2	1:A:45:GLN:H	2.07	0.51
1:A:56:LYS:HG2	1:A:112:ILE:HD13	1.93	0.50
1:B:107:THR:HG22	1:B:111:GLY:HA2	1.92	0.50
1:A:40:PHE:CE2	1:A:179:THR:HG22	2.49	0.48
1:B:35:PHE:C	1:B:35:PHE:CD1	2.91	0.48
1:B:93:THR:CG2	1:B:124:ARG:HB2	2.44	0.47
1:B:170:GLU:O	1:B:173:LYS:HG3	2.14	0.47
1:A:8:LEU:O	1:A:15:PRO:HA	2.13	0.47
1:A:170:GLU:HG2	1:A:171:ALA:N	2.29	0.47
1:A:55:LYS:NZ	1:A:135:GLU:OE1	2.36	0.46
1:B:174:ARG:HG2	5:B:2022:HOH:O	2.14	0.46
1:B:66:VAL:HG11	1:B:83:ARG:HB3	1.96	0.46
1:B:21:LYS:NZ	1:B:69:HIS:HD1	2.15	0.45
1:B:169:ARG:NH1	1:B:173:LYS:HB3	2.31	0.45
1:B:76:ASN:O	1:B:80:VAL:HG23	2.17	0.44
1:A:99:TYR:HB3	1:A:120:VAL:HB	1.99	0.44
1:A:41:ASN:C	1:A:41:ASN:HD22	2.25	0.44
1:B:102:PHE:HE1	1:B:164:MET:HE2	1.83	0.43
1:A:41:ASN:HD21	1:A:45:GLN:H	1.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4:GLU:OE2	1:A:21:LYS:HE2	2.17	0.43
1:B:10:ASN:ND2	1:B:12:GLN:H	2.17	0.43
1:B:57:ALA:HB1	1:B:58:TRP:CE3	2.54	0.43
1:A:140:GLN:HE21	1:A:140:GLN:HB2	1.50	0.42
1:B:93:THR:HG23	1:B:124:ARG:HB2	2.01	0.42
1:B:10:ASN:C	1:B:10:ASN:HD22	2.27	0.42
1:B:66:VAL:HG21	1:B:84:CYS:SG	2.61	0.41
1:B:169:ARG:NH1	1:B:173:LYS:CG	2.80	0.41
1:B:52:ALA:HA	1:B:137:MET:HB3	2.03	0.41
1:B:107:THR:O	5:B:2026:HOH:O	2.22	0.41
1:A:47:LEU:HB2	1:A:141:TRP:CZ3	2.56	0.41
1:A:40:PHE:HB2	1:A:124:ARG:HD3	2.04	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	175/183 (96%)	170 (97%)	5 (3%)	0	100	100
1	B	178/183 (97%)	176 (99%)	2 (1%)	0	100	100
All	All	353/366 (96%)	346 (98%)	7 (2%)	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	149/155 (96%)	137 (92%)	12 (8%)	11	12
1	B	152/155 (98%)	140 (92%)	12 (8%)	11	13
All	All	301/310 (97%)	277 (92%)	24 (8%)	11	13

All (24) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	10	ASN
1	A	12	GLN
1	A	18	THR
1	A	21	LYS
1	A	30	ARG
1	A	41	ASN
1	A	83	ARG
1	A	103	ARG
1	A	108	ASP
1	A	140	GLN
1	A	170	GLU
1	A	173	LYS
1	B	4	GLU
1	B	10	ASN
1	B	19	LEU
1	B	30	ARG
1	B	65	SER
1	B	77	GLU
1	B	83	ARG
1	B	110	SER
1	B	169	ARG
1	B	170	GLU
1	B	173	LYS
1	B	183	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (6) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	10	ASN
1	A	12	GLN
1	A	41	ASN
1	A	140	GLN

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Mol	Chain	Res	Type
1	B	10	ASN
1	B	76	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

Of 6 ligands modelled in this entry, 2 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	IMD	B	301	-	5,5,5	3.37	5 (100%)	5,5,5	2.05	3 (60%)
4	SO4	A	401	-	4,4,4	0.54	0	6,6,6	0.64	0
3	IMD	A	301	-	5,5,5	2.85	4 (80%)	5,5,5	1.96	2 (40%)
4	SO4	B	401	-	4,4,4	0.70	0	6,6,6	0.37	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	IMD	B	301	-	-	-	0/1/1/1
3	IMD	A	301	-	-	-	0/1/1/1

All (9) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	301	IMD	C5-C4	4.53	1.51	1.35
3	A	301	IMD	C5-C4	4.03	1.49	1.35
3	B	301	IMD	C2-N3	3.46	1.47	1.32
3	A	301	IMD	C2-N1	3.14	1.46	1.34
3	B	301	IMD	C2-N1	3.02	1.45	1.34
3	B	301	IMD	C5-N1	2.97	1.46	1.35
3	A	301	IMD	C2-N3	2.73	1.44	1.32
3	B	301	IMD	C4-N3	2.53	1.46	1.37
3	A	301	IMD	C4-N3	2.05	1.44	1.37

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	301	IMD	C5-N1-C2	2.94	113.52	107.19
3	B	301	IMD	C5-C4-N3	-2.62	101.03	109.11
3	B	301	IMD	C4-N3-C2	2.31	115.34	106.40
3	A	301	IMD	N1-C2-N3	-2.14	101.51	110.15
3	B	301	IMD	N1-C2-N3	-2.13	101.52	110.15

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

3 monomers are involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	B	301	IMD	1	0
3	A	301	IMD	1	0
4	B	401	SO4	1	0

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

There are no chain breaks in this entry.

6 Fit of model and data [i](#)

6.1 Protein, DNA and RNA chains [i](#)

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	176/183 (96%)	-0.14	0	100	100	13, 20, 29, 38	1 (0%)
1	B	180/183 (98%)	-0.17	1 (0%)	85	83	14, 21, 31, 39	0
All	All	356/366 (97%)	-0.16	1 (0%)	90	88	13, 20, 30, 39	1 (0%)

All (1) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	169	ARG	2.1

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 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
3	IMD	B	301	5/5	0.88	0.10	23,25,28,29	0
4	SO4	A	401	5/5	0.94	0.10	42,44,47,48	0
4	SO4	B	401	5/5	0.94	0.10	40,41,41,43	0
3	IMD	A	301	5/5	0.98	0.06	13,14,17,19	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	MN	A	201	1/1	1.00	0.02	16,16,16,16	0
2	MN	B	201	1/1	1.00	0.03	13,13,13,13	0

6.5 Other polymers [i](#)

There are no such residues in this entry.