



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 09:21 AM UTC

PDB ID : 1BS5 / pdb_00001bs5
Title : PEPTIDE DEFORMYLASE AS ZN2+ CONTAINING FORM
Authors : Becker, A.; Schlichting, I.; Kabsch, W.; Groche, D.; Schultz, S.; Wagner, A.F.V.
Deposited on : 1998-09-01
Resolution : 2.50 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

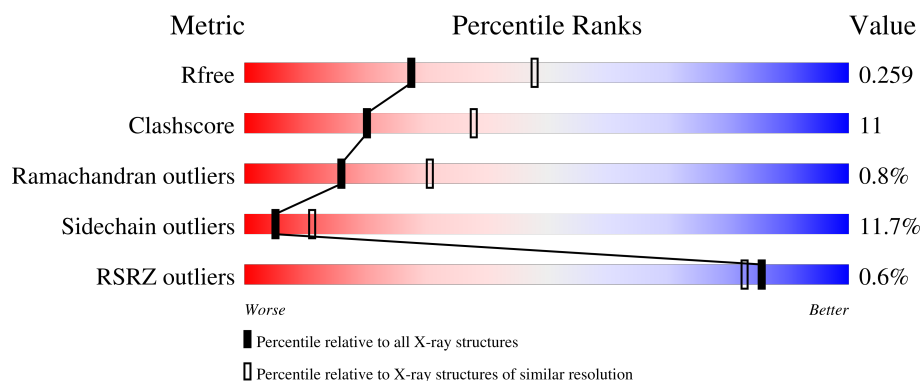
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.50 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	5829 (2.50-2.50)
Clashscore	190562	6492 (2.50-2.50)
Ramachandran outliers	187476	6378 (2.50-2.50)
Sidechain outliers	187428	6380 (2.50-2.50)
RSRZ outliers	180081	5833 (2.50-2.50)

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	168	 69% 26% 5%
1	B	168	 74% 23% •
1	C	168	 68% 28% •

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 4183 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 PROTEIN (PEPTIDE DEFORMYLASE).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	168	Total	C	N	O	S	0	0	0
			1346	844	241	255	6			
1	B	168	Total	C	N	O	S	0	0	0
			1346	844	241	255	6			
1	C	168	Total	C	N	O	S	0	0	0
			1346	844	241	255	6			

- Molecule 2 is ZINC ION (CCD ID: ZN) (formula: Zn).

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

- Molecule 3 is SULFATE ION (CCD ID: SO4) (formula: O₄S).



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

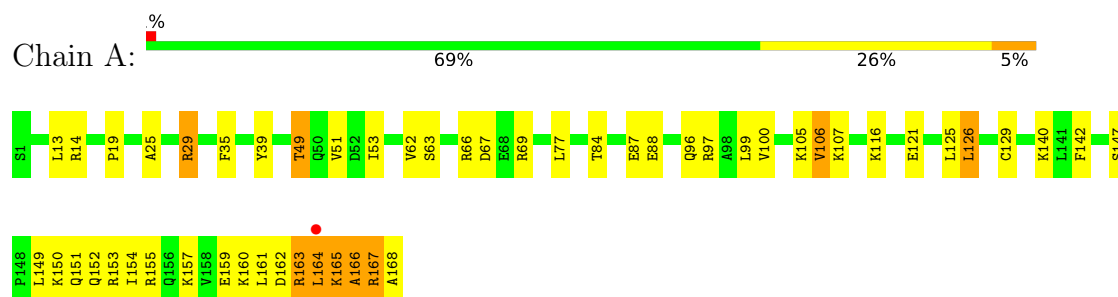
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	33	Total	O	0	0
			33	33		
4	B	45	Total	O	0	0
			45	45		
4	C	54	Total	O	0	0
			54	54		

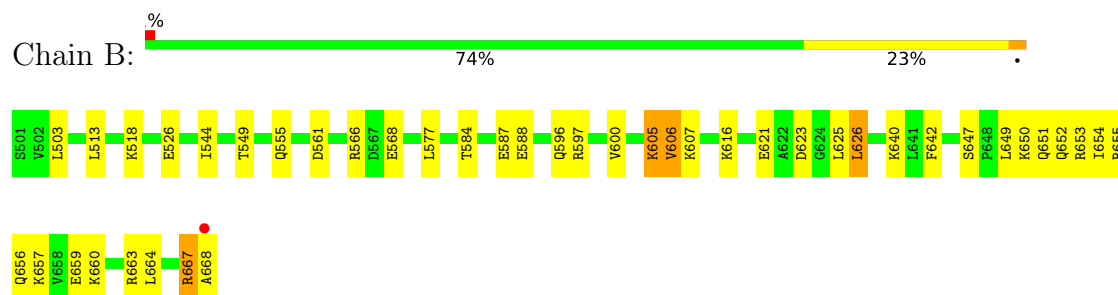
3 Residue-property plots [i](#)

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.

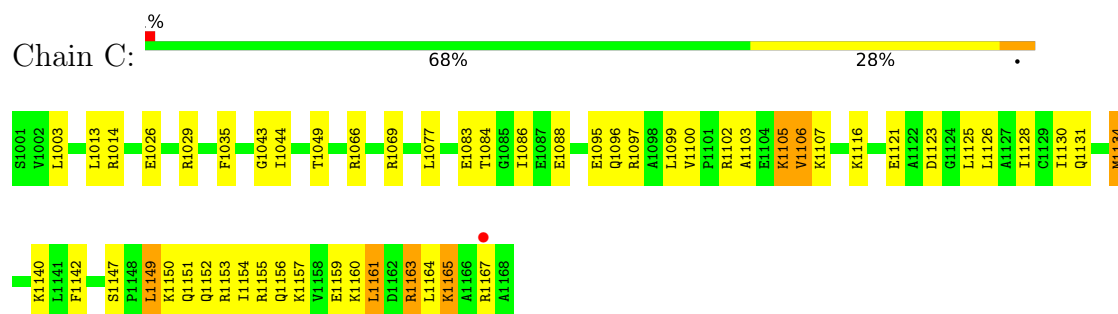
- Molecule 1: PROTEIN (PEPTIDE DEFORMYLASE)



- Molecule 1: PROTEIN (PEPTIDE DEFORMYLASE)



- Molecule 1: PROTEIN (PEPTIDE DEFORMYLASE)



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	143.40Å 64.10Å 84.60Å 90.00° 123.20° 90.00°	Depositor
Resolution (Å)	6.00 – 2.50 6.00 – 2.50	Depositor EDS
% Data completeness (in resolution range)	99.9 (6.00-2.50) 89.9 (6.00-2.50)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$	-	Xtriage
Refinement program	X-PLOR 3.851	Depositor
R, R_{free}	0.208 , 0.258 0.201 , 0.259	Depositor DCC
R_{free} test set	2840 reflections (10.04%)	wwPDB-VP
Wilson B-factor (Å ²)	30.4	Xtriage
Anisotropy	0.325	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 79.7	EDS
L-test for twinning ¹	$\langle L \rangle = 0.42$, $\langle L^2 \rangle = 0.25$	Xtriage
Estimated twinning fraction	0.036 for -h-2*k,l	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	4183	wwPDB-VP
Average B, all atoms (Å ²)	37.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.24% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Theoretical 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: ZN, SO4

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	0.65	0/1361	0.86	1/1830 (0.1%)
1	B	0.71	0/1361	0.85	0/1830
1	C	0.73	1/1361 (0.1%)	0.82	0/1830
All	All	0.70	1/4083 (0.0%)	0.84	1/5490 (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

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	1134	MET	SD-CE	-7.60	1.60	1.79

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	166	ALA	N-CA-C	-5.51	99.06	110.80

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	166	ALA	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	1346	0	1393	38	0
1	B	1346	0	1390	24	0
1	C	1346	0	1390	36	0
2	A	1	0	0	0	0
2	B	1	0	0	0	0
2	C	1	0	0	0	0
3	B	10	0	0	0	0
4	A	33	0	0	1	0
4	B	45	0	0	0	0
4	C	54	0	0	1	0
All	All	4183	0	4173	93	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 11.

All (93) 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:1103:ALA:H	1:C:1131:GLN:HE22	1.20	0.90
1:C:1163:ARG:HB3	1:C:1164:LEU:HD22	1.63	0.80
1:A:164:LEU:HD13	1:A:164:LEU:N	1.97	0.79
1:C:1167:ARG:HH11	1:C:1167:ARG:HG2	1.50	0.76
1:C:1086:ILE:HG12	1:C:1128:ILE:HD13	1.67	0.75
1:A:165:LYS:O	1:A:167:ARG:HB2	1.88	0.73
1:A:77:LEU:HD11	1:A:106:VAL:HG22	1.73	0.69
1:B:577:LEU:HD11	1:B:606:VAL:HG22	1.76	0.68
1:C:1077:LEU:HD11	1:C:1106:VAL:HG22	1.76	0.67
1:A:163:ARG:HB3	1:A:164:LEU:HD13	1.76	0.66
1:C:1149:LEU:HD12	1:C:1153:ARG:NE	2.15	0.62
1:A:164:LEU:N	1:A:164:LEU:CD1	2.65	0.59
1:A:25:ALA:O	1:A:29:ARG:HG2	2.03	0.59
1:A:153:ARG:HG2	1:A:157:LYS:HD2	1.83	0.59
1:B:526:GLU:HG3	1:C:1026:GLU:HA	1.84	0.59
1:B:652:GLN:O	1:B:656:GLN:HG3	2.02	0.59
1:C:1100:VAL:HG21	1:C:1142:PHE:HB2	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:100:VAL:HG21	1:A:142:PHE:HB2	1.85	0.58
1:B:653:ARG:O	1:B:657:LYS:HD2	2.03	0.58
1:A:162:ASP:HA	1:A:165:LYS:HB2	1.86	0.58
1:C:1130:ILE:CG2	1:C:1134:MET:HE3	2.35	0.57
1:A:167:ARG:O	1:A:168:ALA:HB3	2.05	0.57
1:A:155:ARG:O	1:A:159:GLU:HG3	2.05	0.56
1:C:1043:GLY:O	1:C:1066:ARG:NH2	2.36	0.56
1:B:655:ARG:O	1:B:659:GLU:HG3	2.05	0.56
1:B:503:LEU:HD23	1:C:1003:LEU:HD23	1.88	0.56
1:C:1149:LEU:HD12	1:C:1153:ARG:CZ	2.37	0.55
1:B:607:LYS:HG3	1:B:621:GLU:HG2	1.89	0.54
1:C:1155:ARG:O	1:C:1159:GLU:HG3	2.08	0.54
1:B:561:ASP:O	1:B:566:ARG:NH2	2.40	0.54
1:A:25:ALA:HB1	1:A:29:ARG:NH1	2.22	0.53
1:A:159:GLU:HB3	1:A:163:ARG:HH21	1.74	0.53
1:B:526:GLU:HA	1:C:1026:GLU:HG3	1.91	0.53
1:C:1107:LYS:HG3	1:C:1121:GLU:HG2	1.91	0.53
1:A:35:PHE:CZ	1:A:69:ARG:HB3	2.44	0.52
1:C:1095:GLU:HG3	4:C:105:HOH:O	2.08	0.52
1:B:600:VAL:HG21	1:B:642:PHE:HB2	1.92	0.52
1:C:1152:GLN:O	1:C:1156:GLN:HG3	2.09	0.52
1:A:162:ASP:O	1:A:165:LYS:N	2.42	0.52
1:A:19:PRO:HG3	1:C:1066:ARG:HG2	1.92	0.52
1:A:39:TYR:CZ	1:A:66:ARG:HG3	2.46	0.51
1:A:161:LEU:HA	1:A:164:LEU:HD22	1.92	0.51
1:A:39:TYR:CE1	1:A:66:ARG:HG3	2.46	0.51
1:C:1159:GLU:HB3	1:C:1163:ARG:HH21	1.76	0.51
1:B:664:LEU:C	1:B:664:LEU:HD23	2.36	0.50
1:C:1152:GLN:OE1	1:C:1156:GLN:NE2	2.44	0.50
1:A:49:THR:HB	4:A:2006:HOH:O	2.11	0.49
1:B:659:GLU:HB3	1:B:663:ARG:HH21	1.76	0.49
1:A:107:LYS:HG3	1:A:121:GLU:HG2	1.93	0.49
1:B:544:ILE:HG22	1:B:566:ARG:NH2	2.27	0.49
1:C:1099:LEU:C	1:C:1099:LEU:HD23	2.37	0.49
1:A:77:LEU:CD1	1:A:106:VAL:HG22	2.40	0.48
1:C:1167:ARG:HG2	1:C:1167:ARG:NH1	2.25	0.48
1:C:1130:ILE:HG22	1:C:1134:MET:HE3	1.95	0.48
1:A:167:ARG:O	1:A:168:ALA:CB	2.63	0.47
1:A:126:LEU:HD23	1:A:126:LEU:HA	1.75	0.47
1:B:588:GLU:O	1:B:597:ARG:HA	2.15	0.47
1:C:1096:GLN:HG3	1:C:1154:ILE:HG23	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:161:LEU:HA	1:A:164:LEU:CD2	2.44	0.47
1:C:1077:LEU:CD1	1:C:1106:VAL:HG22	2.42	0.46
1:C:1164:LEU:HD22	1:C:1164:LEU:H	1.80	0.46
1:A:63:SER:OG	1:A:66:ARG:HA	2.15	0.46
1:C:1044:ILE:HG22	1:C:1066:ARG:HH12	1.80	0.46
1:A:147:SER:O	1:A:151:GLN:HG3	2.15	0.45
1:C:1035:PHE:CZ	1:C:1069:ARG:HB3	2.51	0.45
1:A:153:ARG:NE	1:A:157:LYS:HE2	2.31	0.45
1:C:1167:ARG:NE	1:C:1167:ARG:HA	2.31	0.45
1:C:1088:GLU:O	1:C:1097:ARG:HA	2.16	0.45
1:A:163:ARG:C	1:A:164:LEU:HD13	2.40	0.45
1:B:577:LEU:CD1	1:B:606:VAL:HG22	2.45	0.45
1:A:162:ASP:C	1:A:164:LEU:N	2.74	0.44
1:B:526:GLU:OE2	1:C:1029:ARG:HD2	2.17	0.44
1:A:88:GLU:O	1:A:97:ARG:HA	2.18	0.44
1:B:596:GLN:HG3	1:B:654:ILE:HG23	1.99	0.44
1:C:1083:GLU:HA	1:C:1102:ARG:O	2.18	0.44
1:B:642:PHE:CD1	1:B:642:PHE:C	2.96	0.44
1:C:1096:GLN:OE1	1:C:1157:LYS:HD3	2.18	0.43
1:B:647:SER:O	1:B:651:GLN:HG3	2.19	0.43
1:C:1147:SER:O	1:C:1151:GLN:HG3	2.18	0.43
1:A:165:LYS:HB2	1:A:165:LYS:HE3	1.71	0.43
1:A:96:GLN:OE1	1:A:157:LYS:HD3	2.19	0.43
1:C:1095:GLU:CD	1:C:1161:LEU:HD11	2.44	0.42
1:B:596:GLN:OE1	1:B:657:LYS:HD3	2.20	0.42
1:A:29:ARG:HG2	1:A:29:ARG:H	1.76	0.41
1:A:63:SER:O	1:A:66:ARG:NH1	2.53	0.41
1:B:605:LYS:HG3	1:B:623:ASP:HB3	2.02	0.41
1:C:1105:LYS:HG3	1:C:1123:ASP:HB3	2.02	0.41
1:B:626:LEU:HD23	1:B:626:LEU:HA	1.82	0.41
1:A:51:VAL:HG23	1:A:53:ILE:HD12	2.02	0.41
1:B:667:ARG:HE	1:B:668:ALA:N	2.19	0.41
1:A:96:GLN:HG3	1:A:154:ILE:HG23	2.03	0.41
1:A:167:ARG:HE	1:A:167:ARG:C	2.30	0.40
1:B:518:LYS:O	1:B:555:GLN:HA	2.22	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	166/168 (99%)	154 (93%)	10 (6%)	2 (1%)	10	20
1	B	166/168 (99%)	156 (94%)	10 (6%)	0	100	100
1	C	166/168 (99%)	154 (93%)	10 (6%)	2 (1%)	10	20
All	All	498/504 (99%)	464 (93%)	30 (6%)	4 (1%)	16	31

All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	163	ARG
1	C	1165	LYS
1	A	165	LYS
1	C	1163	ARG

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	148/148 (100%)	126 (85%)	22 (15%)	3	6
1	B	148/148 (100%)	133 (90%)	15 (10%)	7	15
1	C	148/148 (100%)	133 (90%)	15 (10%)	7	15
All	All	444/444 (100%)	392 (88%)	52 (12%)	5	11

All (52) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	13	LEU
1	A	14	ARG
1	A	29	ARG
1	A	49	THR
1	A	62	VAL
1	A	67	ASP
1	A	84	THR
1	A	87	GLU
1	A	99	LEU
1	A	105	LYS
1	A	106	VAL
1	A	116	LYS
1	A	125	LEU
1	A	126	LEU
1	A	129	CYS
1	A	140	LYS
1	A	149	LEU
1	A	150	LYS
1	A	152	GLN
1	A	160	LYS
1	A	164	LEU
1	A	167	ARG
1	B	513	LEU
1	B	549	THR
1	B	568	GLU
1	B	584	THR
1	B	587	GLU
1	B	605	LYS
1	B	606	VAL
1	B	616	LYS
1	B	625	LEU
1	B	626	LEU
1	B	640	LYS
1	B	649	LEU
1	B	650	LYS
1	B	660	LYS
1	B	667	ARG
1	C	1013	LEU
1	C	1014	ARG
1	C	1049	THR
1	C	1084	THR
1	C	1105	LYS
1	C	1106	VAL

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Mol	Chain	Res	Type
1	C	1116	LYS
1	C	1125	LEU
1	C	1126	LEU
1	C	1140	LYS
1	C	1149	LEU
1	C	1150	LYS
1	C	1160	LYS
1	C	1161	LEU
1	C	1165	LYS

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

Mol	Chain	Res	Type
1	A	55	GLN
1	A	65	ASN
1	B	550	GLN
1	B	652	GLN
1	C	1131	GLN
1	C	1152	GLN
1	C	1156	GLN

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 5 ligands modelled in this entry, 3 are monoatomic - leaving 2 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	SO4	B	3002	-	4,4,4	0.38	0	6,6,6	0.41	0
3	SO4	B	3001	-	4,4,4	0.25	0	6,6,6	0.37	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.

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 [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	168/168 (100%)	-0.39	1 (0%) 85 83	19, 33, 71, 100	0
1	B	168/168 (100%)	-0.55	1 (0%) 85 83	17, 31, 68, 100	0
1	C	168/168 (100%)	-0.59	1 (0%) 85 83	16, 31, 70, 100	0
All	All	504/504 (100%)	-0.51	3 (0%) 85 83	16, 31, 71, 100	0

All (3) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	1167	ARG	3.0
1	B	668	ALA	2.8
1	A	164	LEU	2.7

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	SO4	B	3002	5/5	0.94	0.08	45,46,47,51	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	ZN	A	2001	1/1	0.96	0.03	26,26,26,26	0
3	SO4	B	3001	5/5	0.97	0.07	46,47,48,50	0
2	ZN	C	2001	1/1	0.97	0.02	22,22,22,22	0
2	ZN	B	2001	1/1	0.99	0.03	21,21,21,21	0

6.5 Other polymers [i](#)

There are no such residues in this entry.