



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 6, 2026 – 11:45 PM UTC

PDB ID : 3G5V / pdb_00003g5v
Title : Antibodies Specifically Targeting a Locally Misfolded Region of Tumor Associated EGFR
Authors : Garrett, T.P.J.; Burgess, A.W.; Huyton, T.; Xu, Y.
Deposited on : 2009-02-05
Resolution : 2.00 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

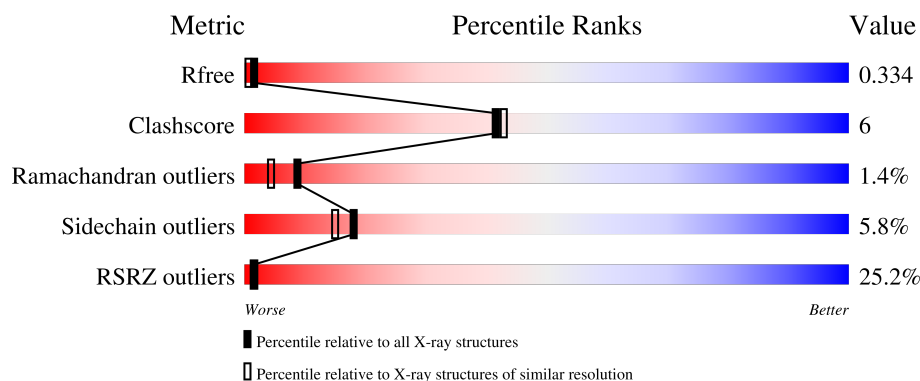
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.00 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	10052 (2.00-2.00)
Clashscore	190562	11152 (2.00-2.00)
Ramachandran outliers	187476	11031 (2.00-2.00)
Sidechain outliers	187428	11029 (2.00-2.00)
RSRZ outliers	180081	10067 (2.00-2.00)

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	212	7% 85% 13% .
2	B	213	40% 71% 17% 5% 6%
3	C	16	44% 94% 6%

2 Entry composition [i](#)

There are 7 unique types of molecules in this entry. The entry contains 3516 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 806 light chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	212	Total	C	N	O	S	15	1	0
			1643	1022	271	343	7			

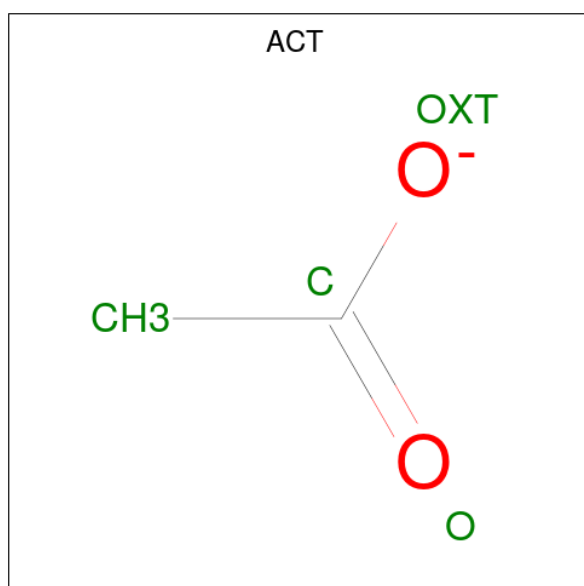
- Molecule 2 is a protein called 808 heavy chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	200	Total	C	N	O	S	23	2	0
			1529	971	246	306	6			

- Molecule 3 is a protein called Epidermal Growth Factor Receptor peptide.

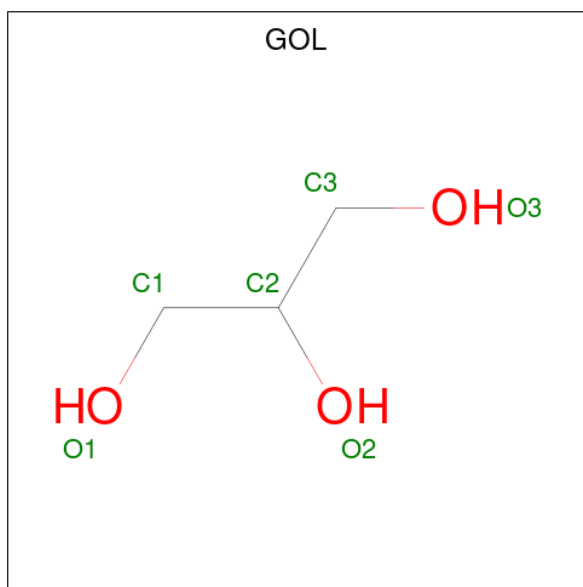
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	C	16	Total	C	N	O	S	0	0	0
			122	70	20	29	3			

- Molecule 4 is ACETATE ION (CCD ID: ACT) (formula: C₂H₃O₂).



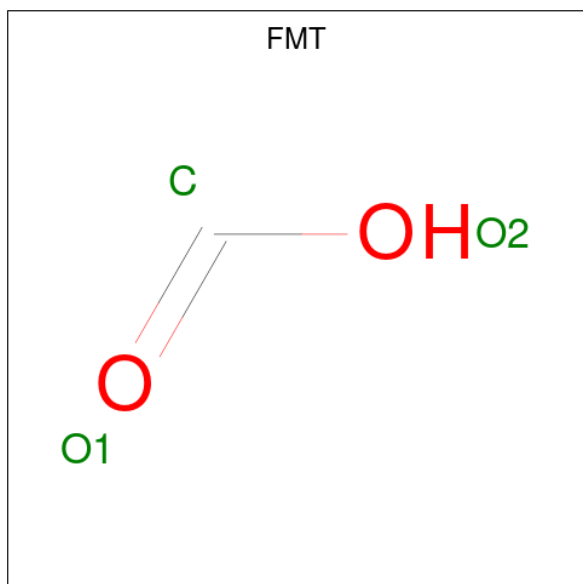
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	A	1	Total	C	O	0	0
			4	2	2		
4	A	1	Total	C	O	0	0
			4	2	2		

- Molecule 5 is GLYCEROL (CCD ID: GOL) (formula: $C_3H_8O_3$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	B	1	Total	C	O	0	0
			6	3	3		

- Molecule 6 is FORMIC ACID (CCD ID: FMT) (formula: CH_2O_2).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	B	1	Total C O 3 1 2	0	0
6	B	1	Total C O 3 1 2	0	0
6	C	1	Total C O 3 1 2	0	0

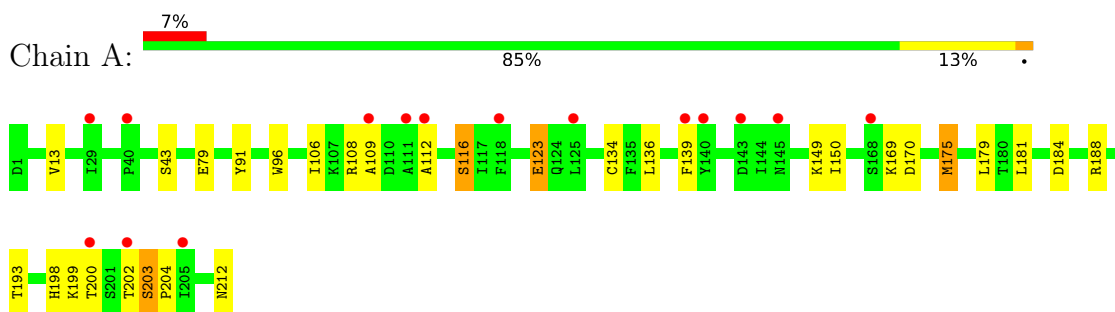
- Molecule 7 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	A	112	Total O 112 112	0	0
7	B	82	Total O 82 82	0	0
7	C	5	Total O 5 5	0	0

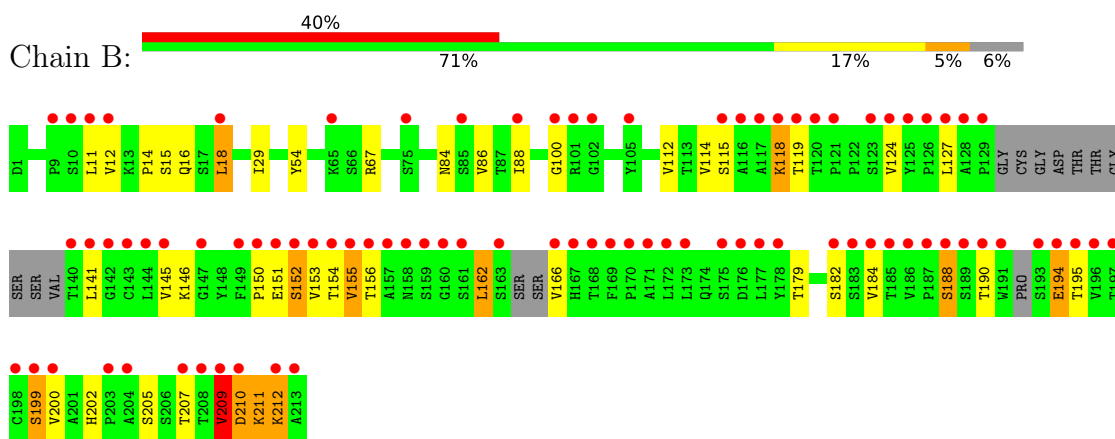
3 Residue-property plots [i](#)

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.

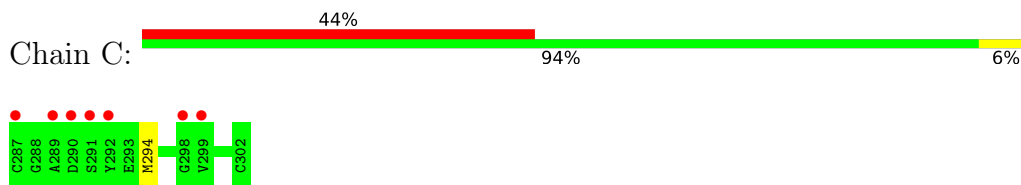
- Molecule 1: 806 light chain



- Molecule 2: 808 heavy chain



- Molecule 3: Epidermal Growth Factor Receptor peptide



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	35.92Å 83.16Å 72.21Å 90.00° 92.43° 90.00°	Depositor
Resolution (Å)	41.58 – 2.00 41.58 – 2.00	Depositor EDS
% Data completeness (in resolution range)	96.6 (41.58-2.00) 96.6 (41.58-2.00)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.82 (at 2.00Å)	Xtriage
Refinement program	PHENIX, REFMAC 5.2.0019	Depositor
R, R_{free}	0.226 , 0.279 0.302 , 0.334	Depositor DCC
R_{free} test set	1389 reflections (4.85%)	wwPDB-VP
Wilson B-factor (Å ²)	28.1	Xtriage
Anisotropy	0.025	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 46.1	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	0.046 for h,-k,-l	Xtriage
F_o, F_c correlation	0.90	EDS
Total number of atoms	3516	wwPDB-VP
Average B, all atoms (Å ²)	33.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.04% 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: FMT, ACT, GOL

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	0.70	5/1684 (0.3%)	0.96	10/2284 (0.4%)
2	B	0.85	5/1573 (0.3%)	1.24	10/2152 (0.5%)
3	C	0.48	0/122	0.85	0/159
All	All	0.76	10/3379 (0.3%)	1.10	20/4595 (0.4%)

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
2	B	1	0

All (10) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	210	ASP	CA-CB	-15.48	1.28	1.53
1	A	106	ILE	CG1-CD1	-14.01	0.97	1.51
2	B	162	LEU	CA-CB	-13.99	1.33	1.53
2	B	199	SER	CA-CB	-13.68	1.34	1.53
1	A	203	SER	CA-CB	-11.29	1.33	1.52
1	A	202	THR	CA-CB	-6.72	1.42	1.53
2	B	194	GLU	CB-CG	-6.09	1.34	1.52
1	A	170	ASP	CA-CB	5.69	1.61	1.53
2	B	118	LYS	CA-CB	-5.10	1.45	1.53
1	A	169	LYS	CA-CB	-5.09	1.45	1.53

All (20) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	210	ASP	CA-CB-CG	-22.91	89.69	112.60
2	B	118	LYS	CB-CA-C	21.70	146.62	109.51
2	B	199	SER	CB-CA-C	14.76	134.10	110.19
1	A	203	SER	CB-CA-C	13.04	128.66	109.11
1	A	106	ILE	CB-CG1-CD1	12.66	140.40	113.80
2	B	162	LEU	CB-CA-C	12.48	130.75	110.29
2	B	118	LYS	N-CA-CB	-12.16	90.59	110.41
2	B	210	ASP	N-CA-CB	12.06	127.69	110.44
1	A	170	ASP	N-CA-CB	10.97	129.31	111.20
1	A	202	THR	CB-CA-C	10.26	130.83	110.42
1	A	169	LYS	CB-CA-C	-9.99	94.37	110.86
1	A	202	THR	CA-CB-OG1	-8.97	96.14	109.60
2	B	209	VAL	CA-CB-CG2	8.06	124.10	110.40
2	B	209	VAL	CB-CA-C	7.97	124.36	111.29
1	A	202	THR	N-CA-CB	-7.43	97.93	110.49
1	A	170	ASP	CB-CA-C	-7.39	99.05	111.02
1	A	169	LYS	CA-CB-CG	-6.00	102.10	114.10
2	B	209	VAL	N-CA-CB	5.97	121.09	111.23
1	A	169	LYS	N-CA-CB	5.53	118.20	110.07
2	B	199	SER	CA-CB-OG	5.05	121.20	111.10

All (1) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
2	B	210	ASP	CA

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	1643	0	1551	14	0
2	B	1529	0	1490	27	0
3	C	122	0	102	0	0
4	A	8	0	6	0	0
5	B	6	0	8	0	0
6	B	6	0	2	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	C	3	0	1	0	0
7	A	112	0	0	1	0
7	B	82	0	0	1	0
7	C	5	0	0	0	0
All	All	3516	0	3160	41	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 6.

All (41) 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:B:211:LYS:HA	2:B:212:LYS:HB3	1.05	1.03
2:B:211:LYS:CA	2:B:212:LYS:HB3	1.93	0.99
2:B:211:LYS:HA	2:B:212:LYS:CB	1.95	0.93
2:B:155:VAL:HG12	2:B:200:VAL:HG22	1.59	0.85
2:B:210:ASP:O	2:B:211:LYS:HB2	1.82	0.80
2:B:18:LEU:HD13	2:B:112:VAL:HG11	1.66	0.75
2:B:202:HIS:ND1	2:B:205:SER:HB2	2.09	0.68
2:B:166:VAL:HG22	2:B:184:VAL:HG23	1.88	0.55
2:B:211:LYS:CA	2:B:212:LYS:CB	2.71	0.55
1:A:136:LEU:HB2	1:A:175:MET:HG3	1.89	0.55
2:B:210:ASP:O	2:B:211:LYS:CB	2.54	0.54
2:B:18:LEU:CD1	2:B:112:VAL:HG11	2.37	0.51
2:B:155:VAL:HG21	2:B:182:SER:HB2	1.94	0.50
2:B:14:PRO:O	2:B:15:SER:HB3	2.12	0.49
1:A:198:HIS:HD2	1:A:199:LYS:H	1.62	0.48
1:A:150:ILE:HD11	1:A:179:LEU:HD21	1.94	0.48
2:B:67:ARG:HG2	2:B:84:ASN:O	2.14	0.47
2:B:146:LYS:HG2	2:B:179:THR:HG23	1.97	0.47
1:A:112:ALA:HA	1:A:200:THR:HG21	1.97	0.46
2:B:205:SER:C	2:B:207:THR:H	2.24	0.45
1:A:203:SER:HA	1:A:204:PRO:HD3	1.86	0.45
1:A:116:SER:O	1:A:134:CYS:HA	2.17	0.45
2:B:151:GLU:OE1	2:B:151:GLU:HA	2.17	0.43
1:A:184:ASP:O	1:A:188:ARG:HG3	2.19	0.43
1:A:198:HIS:C	1:A:200:THR:H	2.27	0.43
2:B:16:GLN:O	2:B:86:VAL:HG22	2.18	0.43
1:A:43:SER:HA	7:A:317:HOH:O	2.19	0.43
2:B:202:HIS:CE1	2:B:205:SER:HB2	2.53	0.42
1:A:139:PHE:HB2	1:A:198:HIS:CE1	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:29:ILE:O	2:B:54:TYR:HA	2.18	0.42
2:B:88:ILE:HG13	7:B:214:HOH:O	2.20	0.42
2:B:12:VAL:O	2:B:114:VAL:HA	2.19	0.42
2:B:151:GLU:O	2:B:152:SER:HB2	2.19	0.42
1:A:108:ARG:NH1	1:A:109:ALA:O	2.51	0.42
2:B:190:THR:HA	2:B:194:GLU:H	1.86	0.41
2:B:124:VAL:HG22	2:B:145:VAL:HG22	2.03	0.41
2:B:153:VAL:HG12	2:B:202:HIS:HB2	2.03	0.41
1:A:123:GLU:H	1:A:123:GLU:HG2	1.45	0.41
1:A:91:TYR:HA	1:A:96:TRP:CD1	2.56	0.40
2:B:11:LEU:HB2	2:B:150:PRO:HG3	2.03	0.40
1:A:149:LYS:HB2	1:A:193:THR:HB	2.03	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	211/212 (100%)	203 (96%)	8 (4%)	0	100	100
2	B	194/213 (91%)	176 (91%)	12 (6%)	6 (3%)	3	1
3	C	14/16 (88%)	13 (93%)	1 (7%)	0	100	100
All	All	419/441 (95%)	392 (94%)	21 (5%)	6 (1%)	9	4

All (6) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	B	152	SER
2	B	211	LYS
2	B	212	LYS
2	B	188	SER
2	B	209	VAL

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Mol	Chain	Res	Type
2	B	100	GLY

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	190/189 (100%)	183 (96%)	7 (4%)	30	30
2	B	179/187 (96%)	165 (92%)	14 (8%)	11	8
3	C	13/13 (100%)	12 (92%)	1 (8%)	12	8
All	All	382/389 (98%)	360 (94%)	22 (6%)	18	15

All (22) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	13	VAL
1	A	79	GLU
1	A	116	SER
1	A	123	GLU
1	A	175	MET
1	A	181	LEU
1	A	212	ASN
2	B	18	LEU
2	B	115	SER
2	B	118	LYS
2	B	119	THR
2	B	127	LEU
2	B	141	LEU
2	B	154	THR
2	B	155	VAL
2	B	156	THR
2	B	162	LEU
2	B	188	SER
2	B	195	THR
2	B	199	SER
2	B	209	VAL

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Mol	Chain	Res	Type
3	C	294	MET

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (8) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	27	GLN
1	A	53	ASN
1	A	198	HIS
1	A	210	ASN
1	A	212	ASN
2	B	5	GLN
2	B	44	ASN
2	B	57	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 oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

6 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
4	ACT	A	400	-	3,3,3	0.80	0	3,3,3	1.35	0
4	ACT	A	600	-	3,3,3	0.80	0	3,3,3	1.39	0
5	GOL	B	500	-	5,5,5	0.33	0	5,5,5	0.48	0
6	FMT	B	701	-	2,2,2	0.80	0	1,1,1	0.28	0
6	FMT	B	700	-	2,2,2	0.67	0	1,1,1	0.19	0
6	FMT	C	702	-	2,2,2	0.74	0	1,1,1	0.25	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
5	GOL	B	500	-	-	3/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (3) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	B	500	GOL	O2-C2-C3-O3
5	B	500	GOL	O1-C1-C2-O2
5	B	500	GOL	O1-C1-C2-C3

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

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	212/212 (100%)	1.06	15 (7%)	22 20	15, 33, 38, 41	6 (2%)
2	B	200/213 (93%)	2.00	86 (43%)	0 1	15, 33, 37, 40	9 (4%)
3	C	16/16 (100%)	1.89	7 (43%)	0 1	30, 35, 37, 37	0
All	All	428/441 (97%)	1.53	108 (25%)	1 1	15, 33, 38, 41	15 (3%)

All (108) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	B	187	PRO	5.6
2	B	129	PRO	5.4
2	B	191	TRP	5.1
2	B	127	LEU	5.0
2	B	188	SER	4.8
2	B	194	GLU	4.7
2	B	171	ALA	4.7
2	B	116	ALA	4.7
2	B	128	ALA	4.6
2	B	169	PHE	4.6
2	B	176	ASP	4.5
2	B	140	THR	4.4
2	B	155	VAL	4.2
2	B	184	VAL	4.2
2	B	172	LEU	4.1
2	B	195	THR	4.1
2	B	167	HIS	4.0
2	B	196	VAL	4.0
2	B	157	ALA	4.0
2	B	124	VAL	4.0
2	B	126	PRO	4.0
2	B	193	SER	3.9
2	B	149	PHE	3.9

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Mol	Chain	Res	Type	RSRZ
2	B	166	VAL	3.8
2	B	198	CYS	3.8
2	B	208	THR	3.8
1	A	109	ALA	3.7
2	B	186	VAL	3.7
2	B	190	THR	3.7
2	B	141	LEU	3.7
3	C	291	SER	3.7
2	B	144	LEU	3.6
2	B	88	ILE	3.6
2	B	170	PRO	3.6
2	B	189	SER	3.6
3	C	290	ASP	3.6
2	B	18	LEU	3.5
2	B	209	VAL	3.5
2	B	185	THR	3.5
2	B	147	GLY	3.5
1	A	200	THR	3.5
2	B	197	THR	3.4
2	B	213	ALA	3.4
2	B	142	GLY	3.4
2	B	11	LEU	3.4
1	A	125	LEU	3.3
2	B	183	SER	3.3
2	B	121	PRO	3.3
2	B	152	SER	3.2
2	B	182	SER	3.2
2	B	153	VAL	3.1
2	B	158	ASN	3.1
2	B	210	ASP	3.0
2	B	143	CYS	3.0
2	B	145	VAL	3.0
2	B	207	THR	2.9
3	C	292	TYR	2.9
2	B	118	LYS	2.8
2	B	75	SER	2.8
2	B	160	GLY	2.8
2	B	123	SER	2.7
2	B	173	LEU	2.7
2	B	119	THR	2.7
3	C	298	GLY	2.7
2	B	177	LEU	2.6

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Mol	Chain	Res	Type	RSRZ
2	B	199	SER	2.6
3	C	287	CYS	2.6
2	B	154	THR	2.6
2	B	65	LYS	2.6
1	A	140	TYR	2.6
3	C	299	VAL	2.5
2	B	200	VAL	2.5
2	B	178	TYR	2.5
2	B	120	THR	2.5
2	B	10	SER	2.5
2	B	115	SER	2.5
2	B	85	SER	2.5
2	B	9	PRO	2.5
2	B	151	GLU	2.4
1	A	143	ASP	2.4
2	B	204	ALA	2.4
2	B	159	SER	2.4
1	A	168	SER	2.4
2	B	168	THR	2.4
2	B	203	PRO	2.4
1	A	29	ILE	2.3
2	B	163	SER	2.3
1	A	112	ALA	2.3
2	B	212	LYS	2.3
2	B	117	ALA	2.3
1	A	205	ILE	2.3
2	B	12	VAL	2.3
1	A	40	PRO	2.3
2	B	150	PRO	2.3
2	B	175	SER	2.2
2	B	156	THR	2.2
2	B	161	SER	2.2
1	A	202	THR	2.2
1	A	111	ALA	2.2
2	B	105	TYR	2.2
1	A	139	PHE	2.2
2	B	125	TYR	2.2
1	A	145	ASN	2.2
2	B	102	GLY	2.1
1	A	118	PHE	2.1
3	C	289	ALA	2.1
2	B	101	ARG	2.0

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Mol	Chain	Res	Type	RSRZ
2	B	100	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 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
4	ACT	A	600	4/4	0.65	0.20	42,42,42,42	0
6	FMT	C	702	3/3	0.71	0.17	55,55,55,55	0
4	ACT	A	400	4/4	0.72	0.19	41,42,42,42	0
6	FMT	B	700	3/3	0.79	0.18	41,41,41,41	0
6	FMT	B	701	3/3	0.84	0.18	38,38,38,38	0
5	GOL	B	500	6/6	0.89	0.12	40,40,41,41	0

6.5 Other polymers [i](#)

There are no such residues in this entry.