WORLDWIDE wwPDB PROTEIN DATA BANK

Full wwPDB X-ray Structure Validation Report ⓘ

Oct 23, 2024 – 02:16 PM EDT

PDB ID	:	1D5I
Title	:	UNLIGANDED GERMLINE PRECURSOR OF AN OXY-COPE CAT-ALYTIC ANTIBODY
Authors	:	Mundorff, E.C.; Hanson, M.A.; Schultz, P.G.; Stevens, R.C.
Deposited on	:	1999-10-07
Resolution	:	2.00 Å(reported)

The following versions of software and data (see references ⓘ) were used in the production of this report:

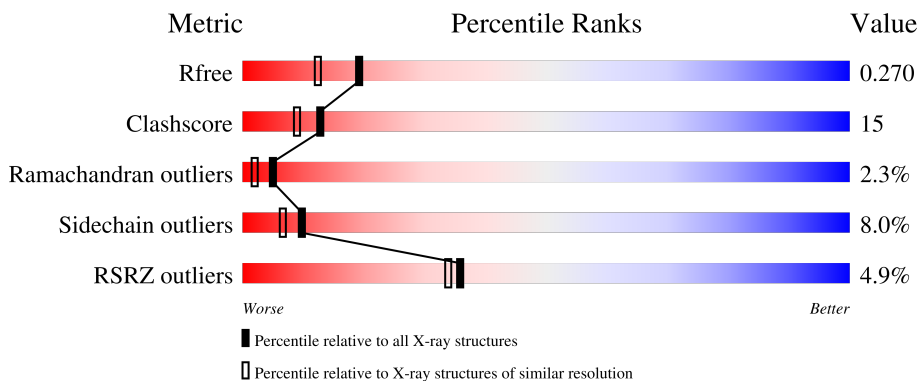|		
MolProbity	:	4.02b-467
Xtriage (Phenix)	:	1.20.1
EDS	:	3.0
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4	:	9.0.003 (Gargrove)
Density-Fitness	:	1.0.11
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.39

1 Overall quality at a glance ⓘ

The following experimental techniques were used to determine the structure:
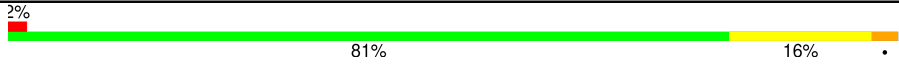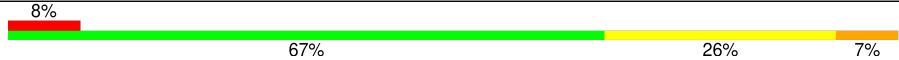*X-RAY DIFFRACTION*

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	Percentile Ranks	Value
Rfree		0.270
Clashscore		15
Ramachandran outliers		2.3%
Sidechain outliers		8.0%
RSRZ outliers		4.9%

Worse   *Better*

▮ Percentile relative to all X-ray structures

▯ Percentile relative to X-ray structures of similar resolution

Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	164625	9409 (2.00-2.00)
Clashscore	180529	10737 (2.00-2.00)
Ramachandran outliers	177936	10628 (2.00-2.00)
Sidechain outliers	177891	10627 (2.00-2.00)
RSRZ outliers	164620	9409 (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 <=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	L	211	2% · 81% · 16% ·
2	H	221	8% · 67% · 26% · 7%

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2 Entry composition ⓘ

There are 4 unique types of molecules in this entry. The entry contains 3501 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 CHIMERIC GERMLINE PRECURSOR OF OXY-COPE CATALYTIC ANTIBODY AZ-28 (LIGHT CHAIN).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	L	211	Total 1652	C 1038	N 272	O 335	S 7	0	0	0

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
L	96	TYR	ARG	conflict	UNP Q7TS98
L	100	SER	GLY	conflict	UNP Q7TS98

- Molecule 2 is a protein called CHIMERIC GERMLINE PRECURSOR OF OXY-COPE CATALYTIC ANTIBODY AZ-28 (HEAVY CHAIN).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	H	221	Total 1664	C 1053	N 271	O 334	S 6	0	0	0

There are 16 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
H	1	GLN	-	expression tag	UNP K7T9I5
H	2	VAL	-	expression tag	UNP K7T9I5
H	3	GLN	-	expression tag	UNP K7T9I5
H	4	LEU	-	expression tag	UNP K7T9I5
H	5	GLN	-	expression tag	UNP K7T9I5
H	6	GLN	-	expression tag	UNP K7T9I5
H	7	SER	-	expression tag	UNP K7T9I5
H	8	GLY	-	expression tag	UNP K7T9I5
H	95	GLY	GLU	conflict	UNP K7T9I5
H	96	HIS	VAL	conflict	UNP K7T9I5
H	97	SER	ARG	conflict	UNP K7T9I5
H	98	TYR	ARG	conflict	UNP K7T9I5

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Chain	Residue	Modelled	Actual	Comment	Reference
H	99	TYR	ARG	conflict	UNP K7T9I5
H	100	PHE	TYR	conflict	UNP K7T9I5
H	100B	ASP	ALA	conflict	UNP K7T9I5
H	100C	GLY	MET	conflict	UNP K7T9I5

- Molecule 3 is CADMIUM ION (three-letter code: CD) (formula: Cd).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	L	3	Total 3	Cd 3	0	0

- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	L	99	Total 99	O 99	0	0
4	H	83	Total 83	O 83	0	0

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: CHIMERIC GERMLINE PRECURSOR OF OXY-COPE CATALYTIC ANTI-BODY AZ-28 (LIGHT CHAIN)
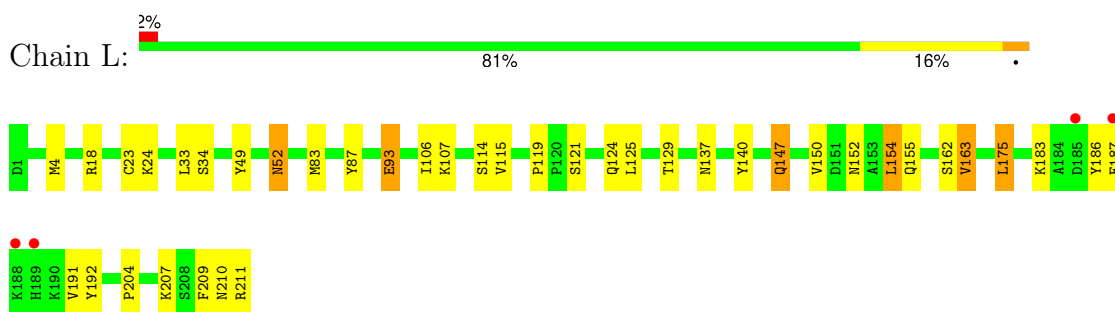
• Molecule 2: CHIMERIC GERMLINE PRECURSOR OF OXY-COPE CATALYTIC ANTI-BODY AZ-28 (HEAVY CHAIN)
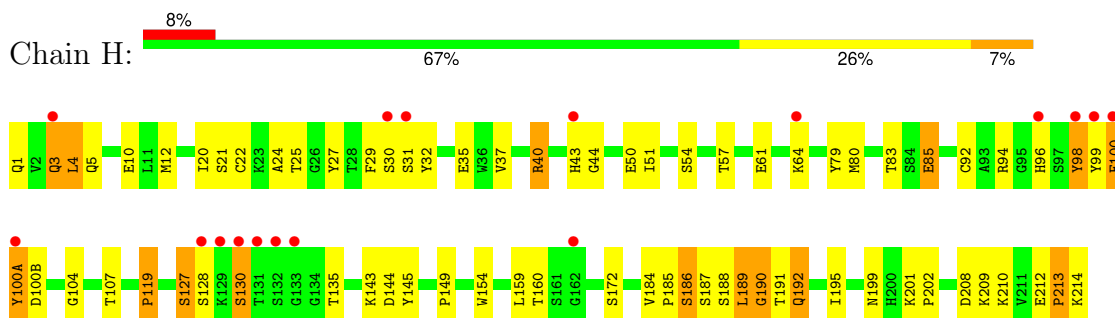
4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α, β, γ	53.17Å 64.13Å 75.95Å 90.00° 99.53° 90.00°	Depositor
Resolution (Å)	20.00 – 2.00 20.00 – 2.00	Depositor EDS
% Data completeness (in resolution range)	84.2 (20.00-2.00) 87.3 (20.00-2.00)	Depositor EDS
R_{merge}	0.04	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	9.80 (at 1.99Å)	Xtriage
Refinement program	CNS 0.4	Depositor
R, R_{free}	0.216 , 0.263 0.222 , 0.270	Depositor DCC
R_{free} test set	2965 reflections (9.93%)	wwPDB-VP
Wilson B-factor (Å^2)	30.7	Xtriage
Anisotropy	0.300	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.34 , 47.2	EDS
L-test for twinning[2]	$< |L| > = 0.49, < L^2 > = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.94	EDS
Total number of atoms	3501	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 5.57% of the height of the origin peak. No significant pseudotranslation is detected.*

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[1]Intensities estimated from amplitudes.
[2]Theoretical values of $< |L| >$, $< L^2 >$ 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: CD

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	L	0.95	1/1688 (0.1%)	0.96	3/2284 (0.1%)
2	H	0.86	1/1709 (0.1%)	0.96	0/2326
All	All	0.91	2/3397 (0.1%)	0.96	3/4610 (0.1%)

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	L	0	1

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	93	GLU	CB-CG	5.59	1.62	1.52
2	H	37	VAL	CA-CB	5.52	1.66	1.54

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	33	LEU	CA-CB-CG	8.30	134.39	115.30
1	L	18	ARG	NE-CZ-NH1	5.75	123.17	120.30
1	L	114	SER	N-CA-C	-5.69	95.64	111.00

There are no chirality outliers.

All (1) planarity outliers are listed below:

W O R L D W I D E
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Mol	Chain	Res	Type	Group
1	L	87	TYR	Sidechain

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	L	1652	0	1603	34	0
2	H	1664	0	1604	62	0
3	L	3	0	0	0	0
4	H	83	0	0	2	1
4	L	99	0	0	0	1
All	All	3501	0	3207	95	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 15.

All (95) 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:H:4:LEU:HD11	2:H:22:CYS:SG	1.56	1.42
2:H:4:LEU:CD1	2:H:22:CYS:SG	2.51	0.99
2:H:51:ILE:HG13	2:H:57:THR:HG22	1.45	0.98
2:H:212:GLU:HB2	2:H:213:PRO:HD2	1.58	0.86
2:H:208:ASP:OD2	4:H:237:HOH:O	1.94	0.85
2:H:214:LYS:O	2:H:214:LYS:HG2	1.79	0.81
2:H:4:LEU:HB3	2:H:104:GLY:HA2	1.65	0.77
1:L:191:VAL:HG22	1:L:210:ASN:HD21	1.52	0.75
2:H:3:GLN:HG3	2:H:25:THR:OG1	1.89	0.73
1:L:121:SER:O	1:L:125:LEU:HD23	1.89	0.72
1:L:183:LYS:O	1:L:187:GLU:HG3	1.93	0.69
2:H:98:TYR:H	2:H:98:TYR:HD2	1.43	0.65
1:L:52:ASN:C	1:L:52:ASN:HD22	2.00	0.65
1:L:210:ASN:O	1:L:211:ARG:HB2	1.98	0.64
1:L:147:GLN:OE1	1:L:154:LEU:HD13	1.98	0.63
2:H:189:LEU:HD12	2:H:189:LEU:N	2.14	0.62
2:H:98:TYR:HD2	2:H:98:TYR:N	1.96	0.62
2:H:98:TYR:N	2:H:98:TYR:CD2	2.68	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:147:GLN:OE1	1:L:154:LEU:HB2	2.00	0.61
1:L:211:ARG:HH11	1:L:211:ARG:HB3	1.66	0.61
2:H:5:GLN:NE2	2:H:5:GLN:HA	2.16	0.61
2:H:30:SER:HB2	4:H:257:HOH:O	2.01	0.60
2:H:127:SER:HB3	2:H:130:SER:O	2.01	0.60
1:L:154:LEU:HD12	1:L:155:GLN:N	2.17	0.60
2:H:210:LYS:HE2	2:H:212:GLU:CD	2.23	0.59
1:L:154:LEU:HD12	1:L:154:LEU:C	2.23	0.59
2:H:188:SER:O	2:H:190:GLY:N	2.34	0.59
2:H:210:LYS:HE2	2:H:212:GLU:OE2	2.03	0.58
2:H:61:GLU:HA	2:H:61:GLU:OE1	2.01	0.58
2:H:4:LEU:HD11	2:H:92:CYS:SG	2.43	0.58
2:H:154:TRP:HB3	2:H:159:LEU:HD23	1.86	0.58
2:H:188:SER:C	2:H:190:GLY:H	2.07	0.57
2:H:96:HIS:HB2	2:H:100:PHE:O	2.05	0.57
2:H:189:LEU:H	2:H:189:LEU:CD1	2.18	0.56
2:H:4:LEU:CD1	2:H:92:CYS:SG	2.94	0.56
1:L:210:ASN:O	1:L:211:ARG:CB	2.53	0.55
2:H:24:ALA:HB1	2:H:27:TYR:CE1	2.41	0.55
2:H:127:SER:CB	2:H:130:SER:O	2.54	0.55
1:L:191:VAL:HG22	1:L:210:ASN:ND2	2.21	0.55
1:L:119:PRO:HB3	1:L:209:PHE:CZ	2.43	0.54
2:H:20:ILE:HG21	2:H:107:THR:HG21	1.89	0.53
2:H:192:GLN:OE1	2:H:192:GLN:HA	2.08	0.53
1:L:124:GLN:HG2	1:L:129:THR:O	2.08	0.53
2:H:10:GLU:HB3	2:H:12:MET:HE3	1.90	0.53
2:H:51:ILE:HG13	2:H:57:THR:CG2	2.28	0.53
2:H:32:TYR:HE2	2:H:100:PHE:HE1	1.58	0.52
1:L:147:GLN:NE2	1:L:154:LEU:HD13	2.26	0.51
2:H:189:LEU:N	2:H:189:LEU:CD1	2.73	0.51
2:H:119:PRO:HB3	2:H:145:TYR:HB3	1.93	0.51
1:L:163:VAL:HG23	1:L:175:LEU:HB2	1.91	0.51
2:H:20:ILE:HD11	2:H:80:MET:CE	2.43	0.48
2:H:40:ARG:HG2	2:H:43:HIS:HB2	1.95	0.48
2:H:21:SER:HB3	2:H:79:TYR:CE1	2.48	0.48
2:H:214:LYS:O	2:H:214:LYS:CG	2.53	0.48
1:L:52:ASN:C	1:L:52:ASN:ND2	2.67	0.48
1:L:49:TYR:CZ	2:H:100(B):ASP:HA	2.48	0.47
1:L:83:MET:HE3	1:L:106:ILE:HD13	1.98	0.46
1:L:147:GLN:HE22	1:L:154:LEU:HD13	1.80	0.46
1:L:175:LEU:C	1:L:175:LEU:HD23	2.36	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:147:GLN:CD	1:L:154:LEU:HD13	2.35	0.46
2:H:31:SER:HB3	2:H:98:TYR:HE2	1.80	0.46
2:H:127:SER:HB3	2:H:130:SER:C	2.36	0.45
2:H:83:THR:OG1	2:H:85:GLU:HB3	2.17	0.45
1:L:211:ARG:HB3	1:L:211:ARG:NH1	2.32	0.45
2:H:195:ILE:HA	2:H:209:LYS:O	2.17	0.44
1:L:211:ARG:CB	1:L:211:ARG:NH1	2.80	0.44
2:H:189:LEU:HD12	2:H:189:LEU:H	1.77	0.44
2:H:35:GLU:OE2	2:H:50:GLU:OE1	2.35	0.44
2:H:4:LEU:HB3	2:H:104:GLY:CA	2.41	0.44
1:L:186:TYR:HA	1:L:192:TYR:OH	2.18	0.43
2:H:184:VAL:HG23	2:H:189:LEU:HD11	1.99	0.43
1:L:107:LYS:HA	1:L:140:TYR:OH	2.19	0.43
2:H:51:ILE:CG1	2:H:57:THR:HG22	2.32	0.43
2:H:143:LYS:HG2	2:H:144:ASP:CG	2.39	0.43
2:H:212:GLU:HB2	2:H:213:PRO:CD	2.41	0.43
2:H:5:GLN:HA	2:H:5:GLN:HE21	1.84	0.43
2:H:27:TYR:CE2	2:H:94:ARG:HD2	2.54	0.43
1:L:83:MET:HE1	1:L:106:ILE:HD12	2.02	0.42
2:H:5:GLN:NE2	2:H:5:GLN:CA	2.76	0.42
2:H:201:LYS:HB2	2:H:202:PRO:HD3	2.01	0.42
1:L:154:LEU:HD12	1:L:155:GLN:O	2.20	0.42
2:H:20:ILE:CG2	2:H:107:THR:HG21	2.48	0.42
1:L:115:VAL:O	1:L:207:LYS:HE3	2.19	0.42
2:H:100:PHE:O	2:H:100(A):TYR:HB2	2.19	0.42
2:H:4:LEU:HA	2:H:4:LEU:HD13	1.77	0.41
2:H:43:HIS:O	2:H:44:GLY:C	2.58	0.41
1:L:186:TYR:CD1	1:L:192:TYR:OH	2.69	0.41
1:L:150:VAL:HG13	1:L:192:TYR:CE1	2.55	0.41
1:L:4:MET:HE3	1:L:23:CYS:SG	2.61	0.41
2:H:185:PRO:C	2:H:187:SER:H	2.24	0.41
2:H:188:SER:C	2:H:190:GLY:N	2.73	0.41
2:H:212:GLU:CB	2:H:213:PRO:HD2	2.31	0.41
1:L:83:MET:HE3	1:L:106:ILE:CD1	2.52	0.40
2:H:10:GLU:HB3	2:H:12:MET:CE	2.52	0.40
1:L:211:ARG:HH11	1:L:211:ARG:CB	2.33	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:L:305:HOH:O	4:H:286:HOH:O[2_655]	2.07	0.13

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	L	209/211 (99%)	203 (97%)	6 (3%)	0	100	100
2	H	219/221 (99%)	197 (90%)	12 (6%)	10 (5%)	2	0
All	All	428/432 (99%)	400 (94%)	18 (4%)	10 (2%)	5	2

All (10) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	H	127	SER
2	H	189	LEU
2	H	29	PHE
2	H	99	TYR
2	H	100(A)	TYR
2	H	100	PHE
2	H	128	SER
2	H	190	GLY
2	H	213	PRO
2	H	186	SER

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	L	189/189 (100%)	177 (94%)	12 (6%)	15	12
2	H	186/186 (100%)	168 (90%)	18 (10%)	6	4
All	All	375/375 (100%)	345 (92%)	30 (8%)	10	6

All (30) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	L	24	LYS
1	L	34	SER
1	L	52	ASN
1	L	93	GLU
1	L	137	ASN
1	L	147	GLN
1	L	152	ASN
1	L	154	LEU
1	L	162	SER
1	L	163	VAL
1	L	175	LEU
1	L	204	PRO
2	H	1	GLN
2	H	3	GLN
2	H	4	LEU
2	H	40	ARG
2	H	54	SER
2	H	64	LYS
2	H	85	GLU
2	H	98	TYR
2	H	119	PRO
2	H	130	SER
2	H	135	THR
2	H	149	PRO
2	H	160	THR
2	H	172	SER
2	H	186	SER
2	H	191	THR
2	H	192	GLN
2	H	199	ASN

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

Mol	Chain	Res	Type
1	L	52	ASN
1	L	137	ASN
1	L	189	HIS
1	L	210	ASN
2	H	1	GLN
2	H	5	GLN
2	H	43	HIS
2	H	199	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 3 ligands modelled in this entry, 3 are monoatomic - leaving 0 for Mogul analysis.

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 ⓘ

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	L	211/211 (100%)	0.08	4 (1%)	66	65	20, 31, 52, 64	0
2	H	221/221 (100%)	0.40	17 (7%)	21	19	24, 36, 70, 89	0
All	All	432/432 (100%)	0.24	21 (4%)	36	34	20, 33, 64, 89	0

All (21) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	H	99	TYR	4.3
2	H	132	SER	4.2
2	H	130	SER	3.6
2	H	128	SER	3.4
2	H	131	THR	3.4
2	H	129	LYS	3.1
2	H	30	SER	3.1
2	H	98	TYR	3.0
1	L	188	LYS	3.0
2	H	43	HIS	2.9
2	H	133	GLY	2.6
2	H	100	PHE	2.4
2	H	3	GLN	2.3
2	H	100(A)	TYR	2.3
1	L	187	GLU	2.3
2	H	31	SER	2.3
1	L	185	ASP	2.2
2	H	64	LYS	2.2
1	L	189	HIS	2.1
2	H	162	GLY	2.0
2	H	96	HIS	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 monosaccharides 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($\mathring{A}^2$)	Q<0.9
3	CD	L	212	1/1	0.99	0.03	39,39,39,39	0
3	CD	L	213	1/1	1.00	0.02	38,38,38,38	0
3	CD	L	214	1/1	1.00	0.01	27,27,27,27	0

6.5 Other polymers ⓘ

There are no such residues in this entry.