



# Full wwPDB X-ray Structure Validation Report ⓘ

May 29, 2020 – 03:20 am BST

PDB ID : 3P0V  
Title : anti-EGFR/HER3 Fab DL11 alone  
Authors : Eigenbrot, C.; Shia, S.  
Deposited on : 2010-09-29  
Resolution : 2.85 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](mailto: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.

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

MolProbity : 4.02b-467  
Xtriage (Phenix) : 1.13  
EDS : 2.11  
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)  
Refmac : 5.8.0158  
CCP4 : 7.0.044 (Gargrove)  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.11

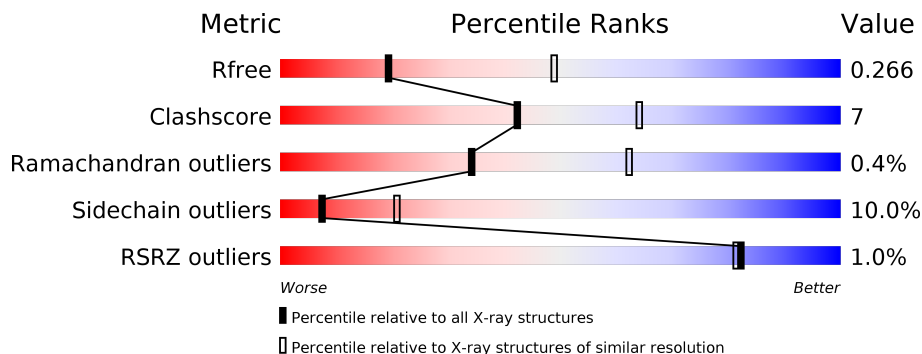
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 2.85 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))
$R_{free}$	130704	3168 (2.90-2.82)
Clashscore	141614	3438 (2.90-2.82)
Ramachandran outliers	138981	3348 (2.90-2.82)
Sidechain outliers	138945	3351 (2.90-2.82)
RSRZ outliers	127900	3103 (2.90-2.82)

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 on the lower bar indicate the fraction of residues that contain outliers for  $\geq 3$ , 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	L	214	 78% 19% ..
1	M	214	 77% 21% ..
2	H	228	 3% 76% 18% . .
2	I	228	 75% 19% . .

## 2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 6526 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 Fab DL11 light chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	L	212	Total 1637	C 1025	N 271	O 336	S 5	0	1	0
1	M	212	Total 1637	C 1025	N 271	O 336	S 5	0	1	0

- Molecule 2 is a protein called Fab DL11 heavy chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	H	218	Total 1614	C 1016	N 270	O 322	S 6	0	0	0
2	I	219	Total 1623	C 1022	N 272	O 323	S 6	0	0	0

- Molecule 3 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	H	2	Total 2	Ca 2	0	0
3	I	2	Total 2	Ca 2	0	0

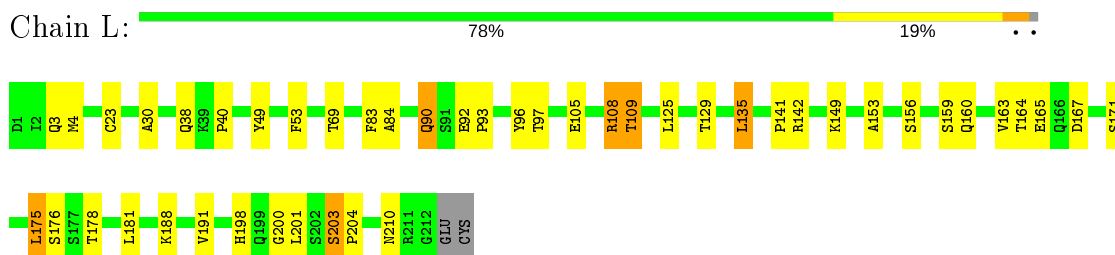
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	L	3	Total 3	O 3	0	0
4	M	6	Total 6	O 6	0	0
4	I	2	Total 2	O 2	0	0

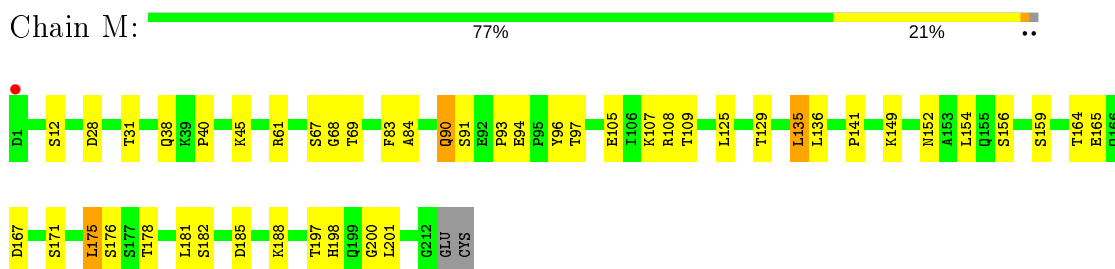
### 3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA and DNA 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.

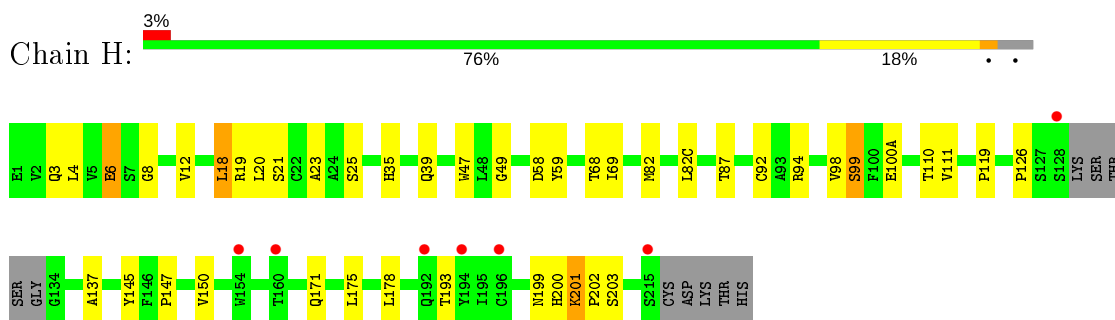
- Molecule 1: Fab DL11 light chain



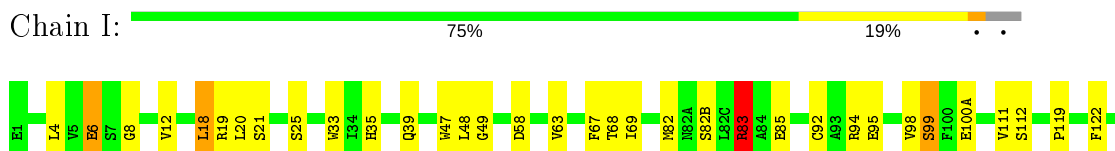
- Molecule 1: Fab DL11 light chain



- Molecule 2: Fab DL11 heavy chain



- Molecule 2: Fab DL11 heavy chain





## 4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	71.38Å 77.17Å 82.66Å 90.00° 99.53° 90.00°	Depositor
Resolution (Å)	50.00 – 2.85 41.60 – 2.85	Depositor EDS
% Data completeness (in resolution range)	99.5 (50.00-2.85) 99.5 (41.60-2.85)	Depositor EDS
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	0.14	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	2.49 (at 2.86Å)	Xtrriage
Refinement program	REFMAC 5.2.0019	Depositor
R, $R_{free}$	0.227 , 0.280 0.218 , 0.266	Depositor DCC
$R_{free}$ test set	1064 reflections (5.14%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	47.6	Xtrriage
Anisotropy	0.064	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.26 , 22.0	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.50$ , $\langle L^2 \rangle = 0.34$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
$F_o, F_c$ correlation	0.91	EDS
Total number of atoms	6526	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	45.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.24% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

<sup>2</sup>Theoretical 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 [i](#)

### 5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: CA

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	0.54	0/1673	0.63	1/2273 (0.0%)
1	M	0.54	0/1673	0.63	1/2273 (0.0%)
2	H	0.47	0/1651	0.62	0/2249
2	I	0.52	0/1660	0.66	1/2260 (0.0%)
All	All	0.52	0/6657	0.64	3/9055 (0.0%)

There are no bond length outliers.

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	I	83	ARG	NE-CZ-NH2	-6.19	117.21	120.30
1	L	135	LEU	CA-CB-CG	5.62	128.23	115.30
1	M	135	LEU	CA-CB-CG	5.09	127.01	115.30

There are no chirality outliers.

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	L	1637	0	1582	26	0
1	M	1637	0	1582	21	0
2	H	1614	0	1570	22	0
2	I	1623	0	1583	27	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	H	2	0	0	0	0
3	I	2	0	0	0	0
4	I	2	0	0	1	0
4	L	3	0	0	0	0
4	M	6	0	0	3	0
All	All	6526	0	6317	88	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 7.

All (88) 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:L:90:GLN:HE21	1:L:96:TYR:HA	1.33	0.92
2:H:35:HIS:HD2	2:H:47:TRP:HE1	1.04	0.91
2:I:35:HIS:HD2	2:I:47:TRP:HE1	1.22	0.87
2:H:35:HIS:CD2	2:H:47:TRP:HE1	1.92	0.86
1:M:12:SER:HB3	1:M:107:LYS:HG3	1.70	0.73
1:M:149:LYS:HG2	1:M:154:LEU:HD23	1.68	0.73
2:H:23:ALA:HB1	2:I:83:ARG:NH2	2.04	0.73
2:I:200:HIS:HD2	2:I:203:SER:OG	1.74	0.71
1:L:90:GLN:NE2	1:L:96:TYR:HA	2.05	0.70
1:L:38:GLN:HE22	2:H:39:GLN:HE22	1.38	0.69
1:M:91:SER:HB2	2:I:100(A):GLU:HG2	1.77	0.67
2:H:98:VAL:O	2:H:99:SER:HB3	1.95	0.66
2:I:98:VAL:O	2:I:99:SER:HB3	1.99	0.63
1:M:28:ASP:OD1	1:M:68:GLY:HA2	1.99	0.62
2:H:200:HIS:HD2	2:H:203:SER:OG	1.83	0.62
1:M:198:HIS:CD2	1:M:200:GLY:H	2.18	0.61
1:M:175:LEU:HD12	1:M:176:SER:N	2.15	0.61
2:I:147:PRO:O	2:I:200:HIS:HE1	1.85	0.60
2:I:35:HIS:CD2	2:I:47:TRP:HE1	2.11	0.60
1:L:198:HIS:CD2	1:L:200:GLY:H	2.19	0.59
2:I:8:GLY:O	2:I:18:LEU:HD21	2.03	0.58
1:L:40:PRO:HG2	1:L:165:GLU:HG2	1.85	0.58
2:H:119:PRO:HB3	2:H:145:TYR:HB3	1.86	0.57
1:L:108:ARG:HG2	1:L:109:THR:N	2.18	0.57
1:L:90:GLN:O	1:L:90:GLN:HG3	2.04	0.56
2:I:98:VAL:O	2:I:99:SER:CB	2.54	0.56
1:M:91:SER:CB	2:I:100(A):GLU:HG2	2.35	0.56
2:I:35:HIS:CE1	2:I:95:GLU:HG3	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:90:GLN:NE2	1:M:93:PRO:O	2.37	0.55
2:I:35:HIS:HE1	2:I:95:GLU:HG3	1.71	0.55
2:H:147:PRO:O	2:H:200:HIS:HE1	1.88	0.54
1:L:142:ARG:HE	1:L:163:VAL:HG11	1.73	0.53
2:H:98:VAL:O	2:H:99:SER:CB	2.56	0.53
2:I:67:PHE:CZ	2:I:82:MET:HG2	2.45	0.51
1:M:83:PHE:O	1:M:84:ALA:HB2	2.10	0.51
1:L:160:GLN:HE22	2:H:171:GLN:HG2	1.76	0.51
1:L:191:VAL:HG22	1:L:210:ASN:ND2	2.26	0.50
1:L:40:PRO:CG	1:L:165:GLU:HG2	2.41	0.50
1:L:4:MET:HE1	1:L:23:CYS:SG	2.52	0.49
1:M:61:ARG:NH1	4:M:217:HOH:O	2.37	0.49
1:L:90:GLN:CG	1:L:97:THR:H	2.26	0.49
2:I:156:SER:N	4:I:223:HOH:O	2.46	0.48
1:L:38:GLN:HE22	2:H:39:GLN:NE2	2.09	0.48
2:H:87:THR:HG23	2:H:110:THR:HA	1.94	0.48
2:H:35:HIS:O	2:H:92:CYS:HA	2.13	0.48
1:M:149:LYS:HG2	1:M:154:LEU:CD2	2.39	0.48
1:L:159:SER:HA	1:L:178:THR:O	2.14	0.48
1:L:90:GLN:O	1:L:96:TYR:HB3	2.13	0.47
1:L:175:LEU:HD12	1:L:176:SER:N	2.29	0.47
2:H:126:PRO:HB3	2:H:137:ALA:O	2.15	0.47
2:I:6:GLU:HA	2:I:21:SER:O	2.14	0.47
1:L:149:LYS:HA	1:L:153:ALA:O	2.16	0.46
1:L:4:MET:CE	1:L:23:CYS:SG	3.03	0.46
1:M:69:THR:HG22	4:M:219:HOH:O	2.14	0.46
1:L:141:PRO:O	1:L:198:HIS:HE1	1.98	0.46
2:I:12:VAL:HG21	2:I:18:LEU:HD12	1.98	0.45
1:M:38:GLN:HE22	2:I:39:GLN:NE2	2.14	0.45
2:H:99:SER:OG	2:H:100(A):GLU:HB2	2.15	0.45
1:L:83:PHE:O	1:L:84:ALA:HB2	2.16	0.45
2:H:59:TYR:HE1	2:H:69:ILE:HG13	1.80	0.45
2:H:82:MET:HE2	2:H:82(C):LEU:HD21	1.99	0.45
1:M:159:SER:HA	1:M:178:THR:O	2.16	0.45
1:M:90:GLN:HE21	1:M:96:TYR:HA	1.82	0.45
2:I:150:VAL:HG22	2:I:200:HIS:HB2	1.99	0.44
2:I:35:HIS:O	2:I:92:CYS:HA	2.17	0.44
1:M:40:PRO:CG	1:M:165:GLU:HG2	2.47	0.44
1:L:92:GLU:HA	1:L:93:PRO:HA	1.73	0.44
2:I:49:GLY:HA3	2:I:69:ILE:HD11	1.99	0.43
2:H:49:GLY:HA3	2:H:69:ILE:HD11	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:33:TRP:HB2	2:I:95:GLU:HB2	2.01	0.43
2:I:178:LEU:C	2:I:178:LEU:HD12	2.39	0.42
2:I:83:ARG:NH1	2:I:85:GLU:OE2	2.47	0.42
2:H:201:LYS:N	2:H:202:PRO:CD	2.83	0.42
2:H:8:GLY:O	2:H:18:LEU:HD21	2.19	0.42
2:I:18:LEU:HD23	2:I:19:ARG:H	1.84	0.42
2:I:119:PRO:HB3	2:I:145:TYR:HB3	2.02	0.42
1:L:49:TYR:O	1:L:53:PHE:HB2	2.19	0.42
1:L:38:GLN:NE2	2:H:39:GLN:HE22	2.11	0.41
1:M:167:ASP:O	1:M:171:SER:HA	2.19	0.41
1:L:167:ASP:O	1:L:171:SER:HA	2.20	0.41
1:M:141:PRO:O	1:M:198:HIS:HE1	2.04	0.40
1:L:203:SER:HA	1:L:204:PRO:HD3	1.96	0.40
1:M:136:LEU:HD12	1:M:136:LEU:N	2.36	0.40
2:H:6:GLU:HA	2:H:21:SER:O	2.22	0.40
1:M:182:SER:O	1:M:185:ASP:N	2.53	0.40
2:I:122:PHE:HD2	2:I:141:LEU:HD23	1.87	0.40
2:I:48:LEU:HD22	2:I:63:VAL:HG11	2.04	0.40
1:M:45:LYS:HE2	4:M:216:HOH:O	2.21	0.40

There are no symmetry-related clashes.

## 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	L	211/214 (99%)	201 (95%)	9 (4%)	1 (0%)	29	57
1	M	211/214 (99%)	202 (96%)	9 (4%)	0	100	100
2	H	214/228 (94%)	207 (97%)	6 (3%)	1 (0%)	29	57
2	I	215/228 (94%)	204 (95%)	10 (5%)	1 (0%)	29	57
All	All	851/884 (96%)	814 (96%)	34 (4%)	3 (0%)	34	62

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	H	99	SER
2	I	99	SER
1	L	30	ALA

### 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	L	187/188 (100%)	171 (91%)	16 (9%)	10	27
1	M	187/188 (100%)	168 (90%)	19 (10%)	7	20
2	H	177/186 (95%)	159 (90%)	18 (10%)	7	20
2	I	178/186 (96%)	158 (89%)	20 (11%)	6	16
All	All	729/748 (98%)	656 (90%)	73 (10%)	7	21

All (73) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	L	3	GLN
1	L	69	THR
1	L	90	GLN
1	L	105	GLU
1	L	108	ARG
1	L	109	THR
1	L	125	LEU
1	L	129	THR
1	L	135	LEU
1	L	156	SER
1	L	164	THR
1	L	175	LEU
1	L	181	LEU
1	L	188	LYS
1	L	201	LEU
1	L	203	SER
2	H	3	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	H	4	LEU
2	H	6	GLU
2	H	12	VAL
2	H	18	LEU
2	H	19	ARG
2	H	20	LEU
2	H	25	SER
2	H	58	ASP
2	H	68	THR
2	H	94	ARG
2	H	111	VAL
2	H	150	VAL
2	H	175	LEU
2	H	178	LEU
2	H	193	THR
2	H	199	ASN
2	H	201	LYS
1	M	31	THR
1	M	67	SER
1	M	90	GLN
1	M	94	GLU
1	M	97	THR
1	M	105	GLU
1	M	108	ARG
1	M	109	THR
1	M	125	LEU
1	M	129	THR
1	M	135	LEU
1	M	152	ASN
1	M	156	SER
1	M	164	THR
1	M	175	LEU
1	M	181	LEU
1	M	188	LYS
1	M	197	THR
1	M	201	LEU
2	I	4	LEU
2	I	6	GLU
2	I	18	LEU
2	I	20	LEU
2	I	25	SER
2	I	58	ASP

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Mol	Chain	Res	Type
2	I	68	THR
2	I	82(B)	SER
2	I	83	ARG
2	I	94	ARG
2	I	111	VAL
2	I	112	SER
2	I	135	THR
2	I	175	LEU
2	I	178	LEU
2	I	193	THR
2	I	197	ASN
2	I	199	ASN
2	I	201	LYS
2	I	205	THR

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (16) such sidechains are listed below:

Mol	Chain	Res	Type
1	L	90	GLN
1	L	160	GLN
1	L	198	HIS
1	L	210	ASN
2	H	35	HIS
2	H	39	GLN
2	H	199	ASN
2	H	200	HIS
1	M	189	HIS
1	M	198	HIS
1	M	210	ASN
2	I	3	GLN
2	I	35	HIS
2	I	39	GLN
2	I	199	ASN
2	I	200	HIS

### 5.3.3 RNA

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 carbohydrates in this entry.

## 5.6 Ligand geometry [i](#)

Of 4 ligands modelled in this entry, 4 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 [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, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
1	L	212/214 (99%)	-0.28	0 <b>100</b>   <b>100</b>	17, 41, 66, 88	1 (0%)
1	M	212/214 (99%)	-0.33	1 (0%) <b>91</b>   <b>90</b>	17, 37, 55, 76	0
2	H	218/228 (95%)	-0.04	7 (3%) 47   42	26, 54, 96, 112	1 (0%)
2	I	219/228 (96%)	-0.21	1 (0%) <b>91</b>   <b>90</b>	23, 44, 72, 90	2 (0%)
All	All	861/884 (97%)	-0.21	9 (1%) <b>82</b>   <b>81</b>	17, 43, 77, 112	4 (0%)

All (9) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	M	1	ASP	5.4
2	H	154	TRP	3.6
2	H	196	CYS	2.6
2	I	212	GLU	2.4
2	H	128	SER	2.4
2	H	192	GLN	2.3
2	H	160	THR	2.2
2	H	215	SER	2.1
2	H	194	TYR	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 carbohydrates 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, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
3	CA	I	221	1/1	0.87	0.25	52,52,52,52	0
3	CA	I	222	1/1	0.90	0.07	54,54,54,54	0
3	CA	H	221	1/1	0.92	0.22	49,49,49,49	0
3	CA	H	222	1/1	0.94	0.10	43,43,43,43	0

## 6.5 Other polymers [i](#)

There are no such residues in this entry.