



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 20, 2026 – 04:39 AM UTC

PDB ID : 7ZF3 / pdb_00007zf3
Title : SARS-CoV-2 Omicron RBD in complex with Omi-3 and EY6A Fabs
Authors : Zhou, D.; Huo, J.; Ren, J.; Stuart, D.I.
Deposited on : 2022-04-01
Resolution : 3.15 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

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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

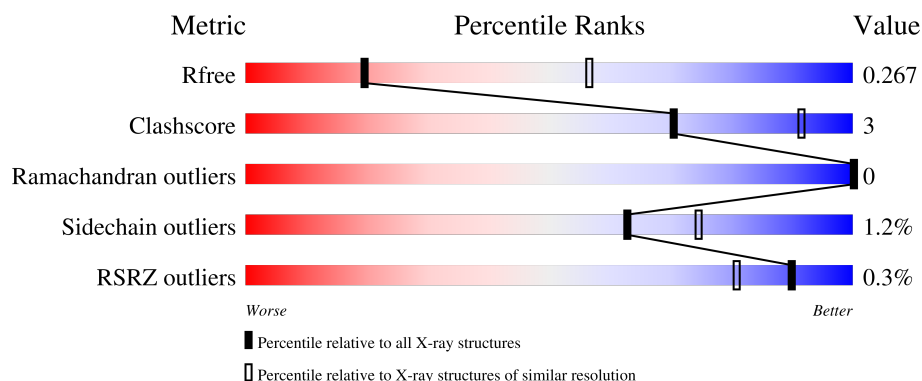
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

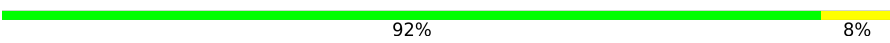
The reported resolution of this entry is 3.15 Å.

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	2361 (3.20-3.12)
Clashscore	190562	2486 (3.20-3.12)
Ramachandran outliers	187476	2405 (3.20-3.12)
Sidechain outliers	187428	2404 (3.20-3.12)
RSRZ outliers	180081	2361 (3.20-3.12)

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	H	226	
2	L	215	
3	A	223	
4	B	216	
5	E	202	

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
7	IPA	A	302	-	-	-	X

2 Entry composition

There are 7 unique types of molecules in this entry. The entry contains 8110 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 EY6A heavy chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	H	217	Total	C	N	O	S	0	0	0
			1646	1047	273	320	6			

- Molecule 2 is a protein called EY6A light chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	L	214	Total	C	N	O	S	0	1	0
			1635	1023	272	335	5			

- Molecule 3 is a protein called Omi-3 heavy chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	A	214	Total	C	N	O	S	0	0	0
			1594	1003	269	316	6			

- Molecule 4 is a protein called Omi-3 light chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	B	215	Total	C	N	O	S	0	0	0
			1640	1025	278	333	4			

- Molecule 5 is a protein called Spike protein S1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	E	195	Total	C	N	O	S	0	0	0
			1563	1007	264	284	8			

There are 23 discrepancies between the modelled and reference sequences:

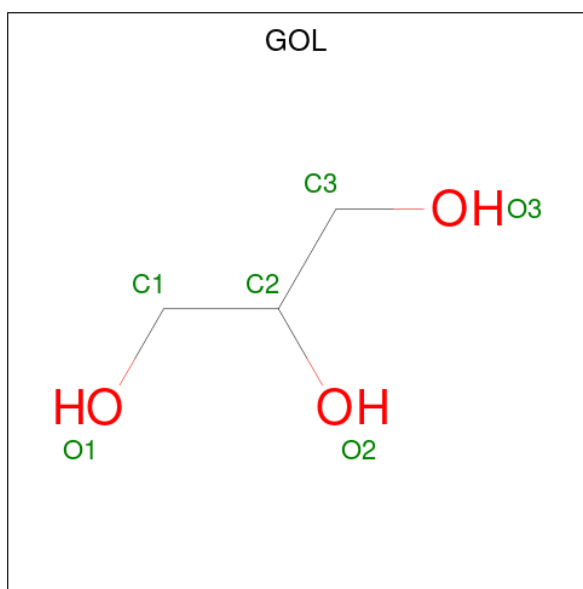
Chain	Residue	Modelled	Actual	Comment	Reference
E	327	HIS	-	expression tag	UNP P0DTC2
E	328	HIS	-	expression tag	UNP P0DTC2

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Chain	Residue	Modelled	Actual	Comment	Reference
E	329	HIS	-	expression tag	UNP P0DTC2
E	330	HIS	-	expression tag	UNP P0DTC2
E	331	HIS	-	expression tag	UNP P0DTC2
E	332	HIS	-	expression tag	UNP P0DTC2
E	339	ASP	GLY	variant	UNP P0DTC2
E	371	LEU	SER	variant	UNP P0DTC2
E	373	PRO	SER	variant	UNP P0DTC2
E	375	PHE	SER	variant	UNP P0DTC2
E	417	ASN	LYS	variant	UNP P0DTC2
E	440	LYS	ASN	variant	UNP P0DTC2
E	446	SER	GLY	variant	UNP P0DTC2
E	477	ASN	SER	variant	UNP P0DTC2
E	478	LYS	THR	variant	UNP P0DTC2
E	484	ALA	GLU	variant	UNP P0DTC2
E	493	ARG	GLN	variant	UNP P0DTC2
E	496	SER	GLY	variant	UNP P0DTC2
E	498	ARG	GLN	conflict	UNP P0DTC2
E	501	TYR	ASN	variant	UNP P0DTC2
E	505	HIS	TYR	variant	UNP P0DTC2
E	527	LYS	-	expression tag	UNP P0DTC2
E	528	LYS	-	expression tag	UNP P0DTC2

- Molecule 6 is GLYCEROL (CCD ID: GOL) (formula: $C_3H_8O_3$).



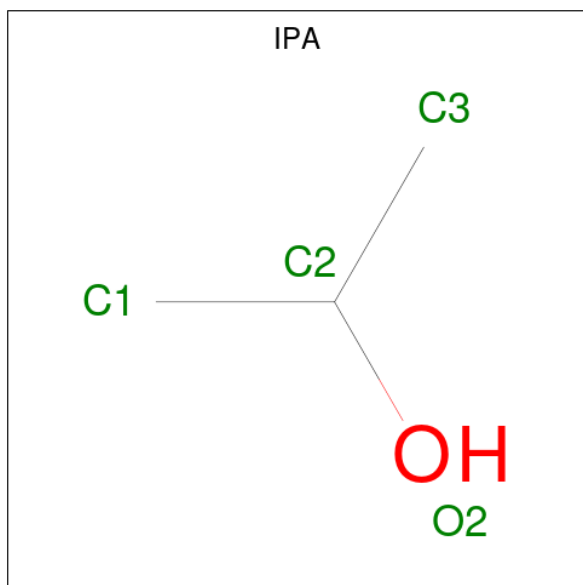
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
6	L	1	Total	C	O	0	0
			6	3	3		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
6	L	1	Total	C	O	0	0
			6	3	3		
6	A	1	Total	C	O	0	0
			6	3	3		
6	E	1	Total	C	O	0	0
			6	3	3		

- Molecule 7 is ISOPROPYL ALCOHOL (CCD ID: IPA) (formula: C_3H_8O).

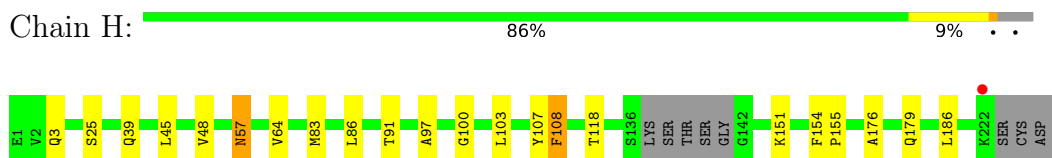


Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
7	A	1	Total	C	O	0	0
			4	3	1		
7	A	1	Total	C	O	0	0
			4	3	1		

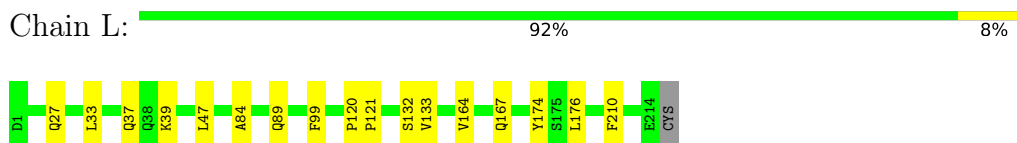
3 Residue-property plots [i](#)

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.

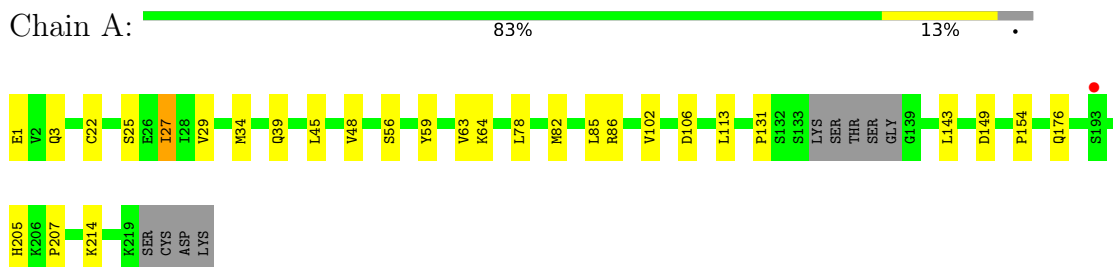
- Molecule 1: EY6A heavy chain



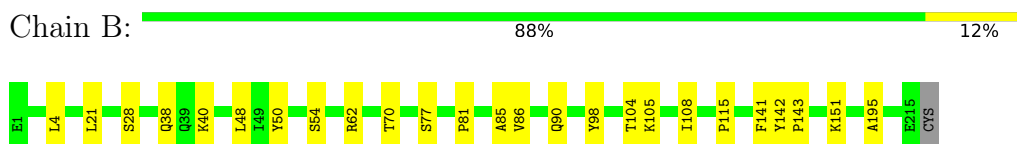
- Molecule 2: EY6A light chain



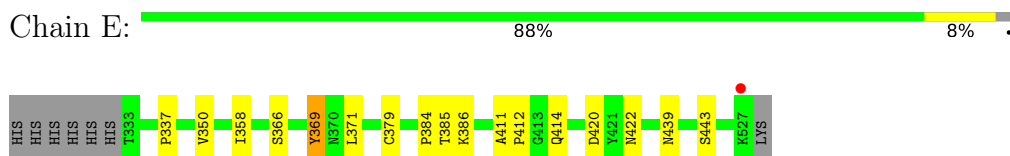
- Molecule 3: Omi-3 heavy chain



- Molecule 4: Omi-3 light chain



- Molecule 5: Spike protein S1



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	87.52Å 119.89Å 134.02Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	73.28 – 3.15 73.28 – 3.15	Depositor EDS
% Data completeness (in resolution range)	99.9 (73.28-3.15) 99.9 (73.28-3.15)	Depositor EDS
R_{merge}	0.49	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.11 (at 3.13Å)	Xtriage
Refinement program	PHENIX 1.19_4092	Depositor
R, R_{free}	0.208 , 0.266 0.210 , 0.267	Depositor DCC
R_{free} test set	1235 reflections (4.93%)	wwPDB-VP
Wilson B-factor (Å ²)	76.8	Xtriage
Anisotropy	0.153	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 53.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.46$, $\langle L^2 \rangle = 0.29$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	8110	wwPDB-VP
Average B, all atoms (Å ²)	77.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.45% 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 [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: IPA, 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	H	0.11	0/1688	0.31	0/2300
2	L	0.11	0/1671	0.27	0/2268
3	A	0.11	0/1628	0.28	0/2219
4	B	0.11	0/1676	0.28	0/2276
5	E	0.11	0/1609	0.26	0/2190
All	All	0.11	0/8272	0.28	0/11253

There are no bond length outliers.

There are no bond angle outliers.

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	H	1646	0	1598	12	0
2	L	1635	0	1600	10	0
3	A	1594	0	1563	15	0
4	B	1640	0	1588	11	0
5	E	1563	0	1489	11	0
6	A	6	0	8	0	0
6	E	6	0	8	0	0
6	L	12	0	16	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
7	A	8	0	15	0	0
All	All	8110	0	7885	55	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 3.

All (55) 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)
5:E:366:SER:HA	5:E:369:TYR:HB2	1.72	0.69
3:A:29:VAL:HG13	3:A:34:MET:HG3	1.78	0.65
1:H:103:LEU:O	5:E:386:LYS:NZ	2.29	0.64
3:A:82:MET:HB3	3:A:85:LEU:HD21	1.83	0.60
1:H:97:ALA:HB1	1:H:108:PHE:HB3	1.84	0.59
5:E:439:ASN:O	5:E:443:SER:OG	2.19	0.58
1:H:91:THR:HG23	1:H:118:THR:HA	1.87	0.57
1:H:100:GLY:HA3	1:H:107:TYR:CZ	2.40	0.56
3:A:48:VAL:HG13	3:A:63:VAL:HG21	1.88	0.56
3:A:34:MET:HB3	3:A:78:LEU:HD22	1.88	0.56
1:H:57:ASN:HB3	5:E:385:THR:HG22	1.89	0.55
3:A:1:GLU:OE2	3:A:3:GLN:NE2	2.40	0.55
1:H:39:GLN:HB2	1:H:45:LEU:HD23	1.89	0.54
1:H:48:VAL:HG13	1:H:64:VAL:HG21	1.89	0.54
4:B:81:PRO:HA	4:B:108:ILE:HD13	1.90	0.51
2:L:167:GLN:HG3	2:L:174:TYR:CZ	2.45	0.51
3:A:56:SER:OG	5:E:420:ASP:OD2	2.21	0.51
4:B:151:LYS:HB2	4:B:195:ALA:HB3	1.93	0.50
1:H:176:ALA:HA	1:H:186:LEU:HB3	1.92	0.50
2:L:37:GLN:HB2	2:L:47:LEU:HD11	1.94	0.50
5:E:379:CYS:SG	5:E:384:PRO:HG3	2.51	0.50
2:L:121:PRO:HD3	2:L:133:VAL:HG22	1.93	0.49
2:L:27:GLN:NE2	5:E:412:PRO:O	2.46	0.49
4:B:50:TYR:O	4:B:54:SER:OG	2.29	0.49
3:A:205:HIS:CD2	3:A:207:PRO:HD2	2.48	0.48
4:B:38:GLN:HB2	4:B:48:LEU:HD11	1.96	0.48
2:L:39:LYS:HD3	2:L:84:ALA:HB2	1.95	0.48
4:B:28:SER:HA	4:B:70:THR:HG23	1.95	0.48
2:L:164[A]:VAL:HG22	2:L:176:LEU:HD12	1.96	0.48
3:A:22:CYS:HB3	3:A:78:LEU:HB3	1.96	0.48
3:A:113:LEU:HD23	3:A:154:PRO:HD3	1.96	0.48
2:L:164[B]:VAL:HG22	2:L:176:LEU:HD12	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:350:VAL:HG22	5:E:422:ASN:HB3	1.97	0.46
3:A:59:TYR:O	3:A:64:LYS:NZ	2.41	0.46
4:B:86:VAL:HG22	4:B:105:LYS:HD3	1.98	0.46
3:A:149:ASP:OD1	3:A:176:GLN:NE2	2.49	0.45
5:E:337:PRO:HD2	5:E:358:ILE:HG23	1.99	0.45
4:B:40:LYS:HG2	4:B:85:ALA:HB2	1.97	0.45
4:B:142:TYR:CG	4:B:143:PRO:HA	2.52	0.45
3:A:25:SER:C	3:A:27:ILE:H	2.25	0.45
2:L:121:PRO:HB3	2:L:132:SER:H	1.81	0.45
5:E:371:LEU:HD23	5:E:371:LEU:HA	1.86	0.45
1:H:151:LYS:NZ	1:H:179:GLN:OE1	2.50	0.44
2:L:120:PRO:HB3	2:L:210:PHE:CE2	2.52	0.44
1:H:83:MET:HB3	1:H:86:LEU:HD21	2.00	0.44
3:A:131:PRO:HD3	3:A:143:LEU:HB3	2.00	0.43
4:B:62:ARG:HB2	4:B:77:SER:O	2.19	0.43
3:A:106:ASP:OD1	3:A:106:ASP:N	2.50	0.42
4:B:21:LEU:HG	4:B:104:THR:HG21	2.01	0.42
1:H:154:PHE:HA	1:H:155:PRO:HA	1.81	0.41
1:H:3:GLN:HB2	1:H:25:SER:HB2	2.03	0.41
2:L:89:GLN:HB2	2:L:99:PHE:CD2	2.56	0.41
5:E:411:ALA:HB3	5:E:414:GLN:HG3	2.02	0.41
4:B:115:PRO:HB3	4:B:141:PHE:HB3	2.02	0.40
3:A:39:GLN:HB2	3:A:45:LEU:HD23	2.03	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	H	213/226 (94%)	205 (96%)	8 (4%)	0	100	100
2	L	213/215 (99%)	207 (97%)	6 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	A	210/223 (94%)	196 (93%)	14 (7%)	0	100	100
4	B	213/216 (99%)	203 (95%)	10 (5%)	0	100	100
5	E	193/202 (96%)	179 (93%)	14 (7%)	0	100	100
All	All	1042/1082 (96%)	990 (95%)	52 (5%)	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	H	182/191 (95%)	180 (99%)	2 (1%)	65	75
2	L	188/188 (100%)	187 (100%)	1 (0%)	81	82
3	A	179/188 (95%)	175 (98%)	4 (2%)	45	67
4	B	184/186 (99%)	181 (98%)	3 (2%)	55	71
5	E	169/177 (96%)	168 (99%)	1 (1%)	78	81
All	All	902/930 (97%)	891 (99%)	11 (1%)	63	74

All (11) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	H	57	ASN
1	H	108	PHE
2	L	33	LEU
3	A	27	ILE
3	A	86	ARG
3	A	102	VAL
3	A	214	LYS
4	B	4	LEU
4	B	90	GLN
4	B	98	TYR
5	E	369	TYR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	Res	Type
2	L	138	ASN
2	L	161	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](#)

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	$\# Z > 2$
7	IPA	A	301	-	3,3,3	0.55	0	3,3,3	0.31	0
6	GOL	E	601	-	5,5,5	1.01	0	5,5,5	0.98	0
7	IPA	A	302	-	3,3,3	0.51	0	3,3,3	0.27	0
6	GOL	L	302	-	5,5,5	0.99	0	5,5,5	1.07	0
6	GOL	L	301	-	5,5,5	0.96	0	5,5,5	1.07	0
6	GOL	A	303	-	5,5,5	0.99	0	5,5,5	1.02	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
6	GOL	E	601	-	-	2/4/4/4	-
6	GOL	A	303	-	-	1/4/4/4	-
6	GOL	L	301	-	-	2/4/4/4	-
6	GOL	L	302	-	-	1/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (6) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
6	L	301	GOL	O1-C1-C2-C3
6	E	601	GOL	C1-C2-C3-O3
6	L	301	GOL	O1-C1-C2-O2
6	L	302	GOL	O2-C2-C3-O3
6	E	601	GOL	O2-C2-C3-O3
6	A	303	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 [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	H	217/226 (96%)	-0.26	1 (0%) 87 75	58, 75, 103, 133	0
2	L	214/215 (99%)	-0.18	0 100 100	49, 72, 117, 147	1 (0%)
3	A	214/223 (95%)	-0.05	1 (0%) 87 75	53, 76, 126, 189	0
4	B	215/216 (99%)	-0.18	0 100 100	59, 76, 101, 136	0
5	E	195/202 (96%)	-0.14	1 (0%) 87 75	52, 71, 110, 143	0
All	All	1055/1082 (97%)	-0.16	3 (0%) 90 81	49, 74, 115, 189	1 (0%)

All (3) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	H	222	LYS	3.4
5	E	527	LYS	2.1
3	A	193	SER	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($\text{\AA}^2$)	Q<0.9
7	IPA	A	302	4/4	0.37	0.41	83,86,93,100	0
6	GOL	A	303	6/6	0.77	0.20	70,81,84,86	0
7	IPA	A	301	4/4	0.84	0.31	76,76,86,86	0
6	GOL	L	302	6/6	0.84	0.12	66,74,78,79	0
6	GOL	E	601	6/6	0.90	0.09	56,61,70,71	0
6	GOL	L	301	6/6	0.93	0.10	64,67,72,73	0

6.5 Other polymers [i](#)

There are no such residues in this entry.