Full wwPDB X-ray Structure Validation Report ⓘ

May 27, 2026 – 08:04 PM EDT

PDB ID	:	13FL / pdb_000013fl
Title	:	Structure of FabS1CE2_P2a in complex with the N-terminal domain of PD-L1
Authors	:	Mallette, E.; Singer, A.U.; Blazer, L.L.; Adams, J.J.; Suits, M.D.L.; Sidhu, S.S.
Deposited on	:	2026-05-04
Resolution	:	2.22 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:

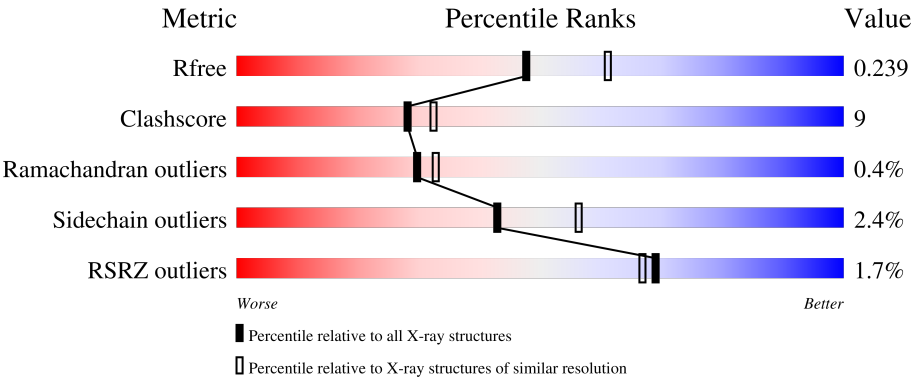
MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 2.22 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	7682 (2.24-2.20)
Clashscore	190562	8402 (2.24-2.20)
Ramachandran outliers	187476	8303 (2.24-2.20)
Sidechain outliers	187428	8304 (2.24-2.20)
RSRZ outliers	180081	7683 (2.24-2.20)

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	A	227	80% 16%
2	B	212	2% 76% 21%
3	C	126	2% 76% 15% 9%

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
4	EDO	A	301	-	-	X	-

2 Entry composition (i)

There are 7 unique types of molecules in this entry. The entry contains 4316 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 FabS1CE2_P2a heavy chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	220	Total	C	N	O	S	0	3	0
			1675	1066	284	319	6			

- Molecule 2 is a protein called FabS1CE2_P2a light chain (Trastuzumab Fab Light Chain).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	210	Total	C	N	O	S	0	0	0
			1617	1013	269	330	5			

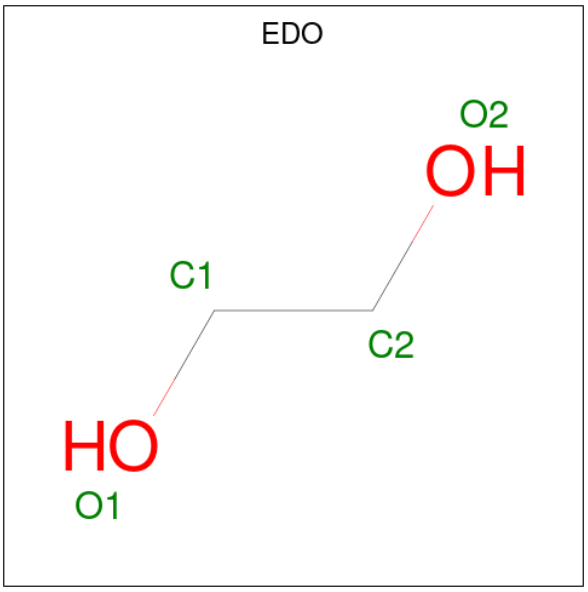
- Molecule 3 is a protein called Programmed cell death 1 ligand 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	C	115	Total	C	N	O	S	0	0	0
			909	582	152	170	5			

There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C	133	LEU	-	expression tag	UNP Q9NZQ7
C	134	VAL	-	expression tag	UNP Q9NZQ7
C	135	PRO	-	expression tag	UNP Q9NZQ7
C	136	ARG	-	expression tag	UNP Q9NZQ7
C	137	GLY	-	expression tag	UNP Q9NZQ7
C	138	SER	-	expression tag	UNP Q9NZQ7
C	139	HIS	-	expression tag	UNP Q9NZQ7
C	140	HIS	-	expression tag	UNP Q9NZQ7
C	141	HIS	-	expression tag	UNP Q9NZQ7
C	142	HIS	-	expression tag	UNP Q9NZQ7
C	143	HIS	-	expression tag	UNP Q9NZQ7
C	144	HIS	-	expression tag	UNP Q9NZQ7

- Molecule 4 is 1,2-ETHANEDIOL (CCD ID: EDO) (formula: $C_2H_6O_2$).

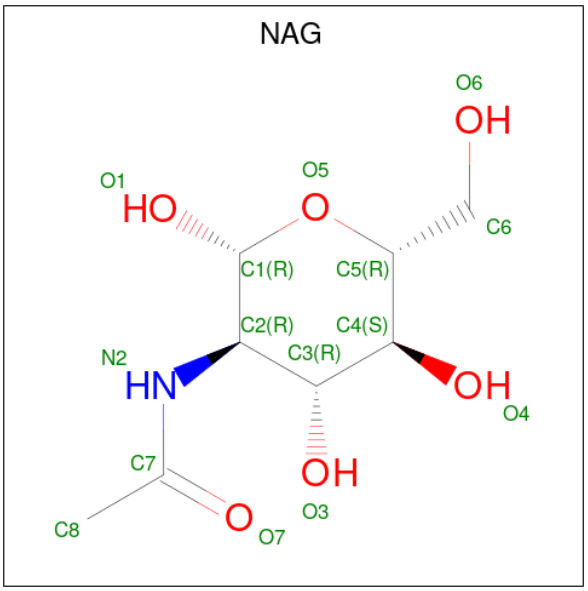


Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	1	Total C O 4 2 2	0	0

- Molecule 5 is CHLORIDE ION (CCD ID: CL) (formula: Cl).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	1	Total Cl 1 1	0	0
5	B	1	Total Cl 1 1	0	0
5	C	1	Total Cl 1 1	0	0

- Molecule 6 is 2-acetamido-2-deoxy-beta-D-glucopyranose (CCD ID: NAG) (formula: $C_8H_{15}NO_6$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	C	1	Total C N O 14 8 1 5	0	0

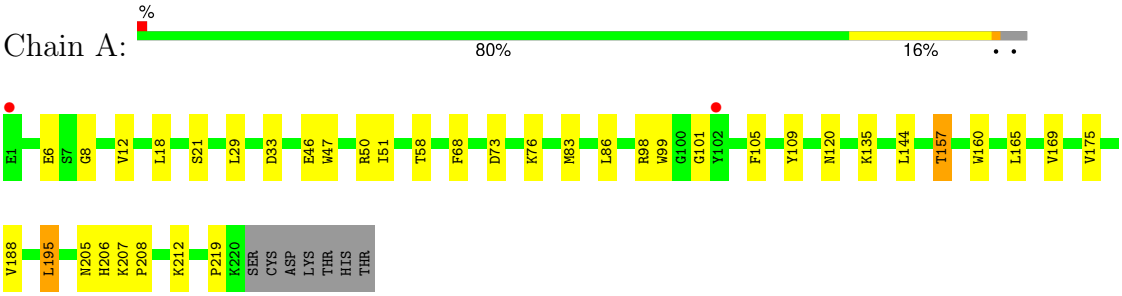
- Molecule 7 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	A	38	Total O 38 38	0	0
7	B	31	Total O 31 31	0	0
7	C	25	Total O 25 25	0	0

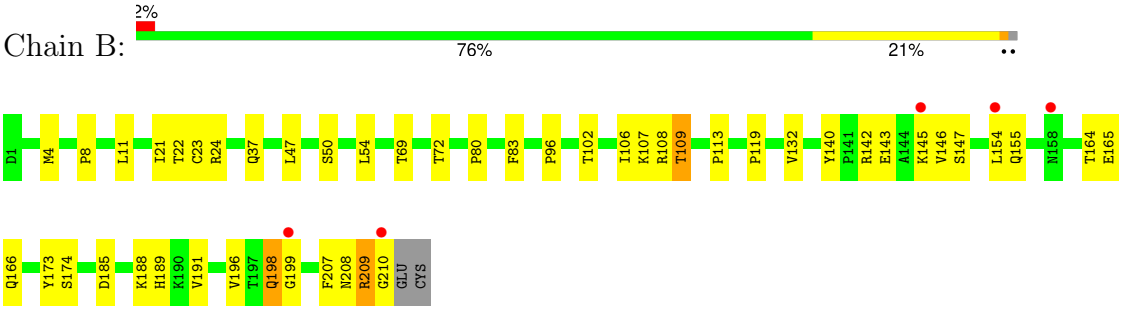
3 Residue-property plots (i)

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.

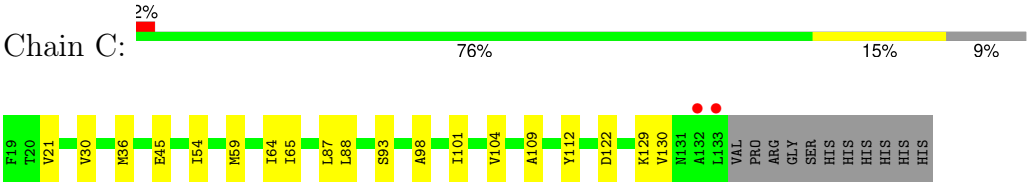
• Molecule 1: FabS1CE2_P2a heavy chain



• Molecule 2: FabS1CE2_P2a light chain (Trastuzumab Fab Light Chain)



• Molecule 3: Programmed cell death 1 ligand 1



4 Data and refinement statistics (i)

Property	Value	Source
Space group	C 2 2 21	Depositor
Cell constants a, b, c, α, β, γ	66.36Å 239.68Å 104.28Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	40.41 – 2.22 40.41 – 2.22	Depositor EDS
% Data completeness (in resolution range)	64.5 (40.41-2.22) 64.5 (40.41-2.22)	Depositor EDS
R_{merge}	0.23	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.80 (at 2.22Å)	Xtriage
Refinement program	PHENIX 1.19.2_4158, PHENIX 1.19.2_4158	Depositor
R, R_{free}	0.199 , 0.239 0.200 , 0.239	Depositor DCC
R_{free} test set	1369 reflections (2.31%)	wwPDB-VP
Wilson B-factor (Å^2)	28.6	Xtriage
Anisotropy	0.033	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.35 , 37.5	EDS
L-test for twinning[2]	$< \|L\| > = 0.48$, $< L^2 > = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.93	EDS
Total number of atoms	4316	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 4.05% of the height of the origin peak. No significant pseudotranslation is detected.*

[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: NAG, EDO, CL

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	0.41	0/1725	0.61	0/2351
2	B	0.40	0/1653	0.57	0/2249
3	C	0.48	0/924	0.70	0/1250
All	All	0.42	0/4302	0.62	0/5850

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

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	1675	0	1629	29	0
2	B	1617	0	1566	32	0
3	C	909	0	899	15	0
4	A	4	0	6	6	0
5	A	1	0	0	0	0
5	B	1	0	0	0	0
5	C	1	0	0	0	0
6	C	14	0	13	0	0
7	A	38	0	0	1	0
7	B	31	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
7	C	25	0	0	0	0
All	All	4316	0	4113	74	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 9.

All (74) 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:A:12:VAL:HG11	1:A:86:LEU:HD13	1.62	0.81
2:B:164:THR:HG22	2:B:174:SER:H	1.48	0.77
1:A:46:GLU:HG3	4:A:301:EDO:H12	1.70	0.72
3:C:21:VAL:HG23	3:C:122:ASP:HB3	1.70	0.72
1:A:47:TRP:H	4:A:301:EDO:H21	1.54	0.72
3:C:59:MET:HB2	3:C:64:ILE:HD11	1.71	0.70
1:A:105:PHE:CZ	3:C:129:LYS:HG3	2.27	0.69
2:B:189:HIS:O	2:B:209:ARG:NH1	2.29	0.65
3:C:88:LEU:HB2	3:C:98:ALA:HB3	1.79	0.64
2:B:191:VAL:HG22	2:B:208:ASN:HD21	1.63	0.64
2:B:21:ILE:HG12	2:B:102:THR:HG21	1.80	0.62
3:C:36:MET:HE2	3:C:104:VAL:HG22	1.82	0.61
3:C:36:MET:HE3	3:C:101:ILE:HB	1.82	0.61
2:B:24:ARG:NH1	2:B:69:THR:OG1	2.35	0.60
1:A:47:TRP:HB3	4:A:301:EDO:H21	1.83	0.59
1:A:206:HIS:CE1	1:A:208:PRO:HG2	2.39	0.57
2:B:119:PRO:HB3	2:B:207:PHE:CE1	2.39	0.57
2:B:108:ARG:HD3	2:B:109:THR:O	2.05	0.56
2:B:198:GLN:HG3	2:B:199:GLY:N	2.21	0.55
1:A:165:LEU:HD21	1:A:188:VAL:HG21	1.90	0.53
3:C:30:VAL:HG11	3:C:36:MET:HG3	1.91	0.52
3:C:45:GLU:HA	3:C:45:GLU:OE1	2.10	0.51
1:A:101:GLY:O	3:C:129:LYS:NZ	2.42	0.51
1:A:120:ASN:HB2	7:A:419:HOH:O	2.11	0.50
2:B:164:THR:HG23	2:B:165:GLU:O	2.12	0.50
1:A:47:TRP:N	4:A:301:EDO:H21	2.22	0.49
1:A:73:ASP:OD1	1:A:76:LYS:HG3	2.11	0.49
2:B:154:LEU:HD12	2:B:155:GLN:H	1.78	0.48
1:A:205:ASN:ND2	1:A:212:LYS:HE2	2.29	0.48
2:B:106:ILE:HD12	2:B:166:GLN:OE1	2.13	0.47
2:B:191:VAL:HG22	2:B:208:ASN:ND2	2.27	0.47
2:B:37:GLN:HB2	2:B:47:LEU:HD11	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:146:VAL:HG22	2:B:196:VAL:HG22	1.97	0.47
4:A:301:EDO:H22	2:B:96:PRO:O	2.15	0.46
2:B:113:PRO:HD3	2:B:198:GLN:NE2	2.30	0.46
3:C:87:LEU:HD12	3:C:87:LEU:HA	1.76	0.46
3:C:109:ALA:HB2	3:C:130:VAL:HG23	1.97	0.46
1:A:47:TRP:H	4:A:301:EDO:C2	2.25	0.45
1:A:98:ARG:HD3	1:A:109:TYR:HB3	1.98	0.45
2:B:142:ARG:HB2	2:B:173:TYR:CE2	2.51	0.45
3:C:64:ILE:HG22	3:C:65:ILE:HG22	1.98	0.45
2:B:143:GLU:N	2:B:143:GLU:OE1	2.50	0.45
1:A:157:THR:HB	1:A:205:ASN:HB3	1.99	0.45
2:B:80:PRO:HA	2:B:83:PHE:HE2	1.81	0.45
1:A:206:HIS:NE2	1:A:208:PRO:HG2	2.32	0.44
1:A:8:GLY:O	1:A:18:LEU:HD21	2.18	0.44
1:A:68:PHE:CZ	1:A:83:MET:HG2	2.52	0.44
2:B:8:PRO:HG2	2:B:11:LEU:HD23	1.98	0.44
2:B:188:LYS:HG3	2:B:189:HIS:CD2	2.52	0.44
1:A:83:MET:HE2	1:A:86:LEU:HD21	1.99	0.44
2:B:80:PRO:HA	2:B:83:PHE:CE2	2.53	0.44
2:B:198:GLN:CG	2:B:199:GLY:N	2.81	0.44
1:A:169:VAL:HG22	1:A:188:VAL:HB	2.00	0.43
1:A:207:LYS:N	1:A:208:PRO:HD2	2.33	0.43
3:C:65:ILE:HD11	3:C:87:LEU:HB2	1.99	0.43
2:B:145:LYS:HD3	2:B:145:LYS:HA	1.90	0.43
2:B:4:MET:HE3	2:B:23:CYS:SG	2.59	0.43
2:B:4:MET:HE3	2:B:4:MET:HB3	1.87	0.42
1:A:6:GLU:HA	1:A:21:SER:O	2.18	0.42
1:A:160:TRP:HB3	1:A:165:LEU:HD23	2.01	0.42
1:A:205:ASN:HD21	1:A:212:LYS:HE2	1.84	0.42
2:B:185:ASP:OD1	2:B:185:ASP:N	2.53	0.42
1:A:135:LYS:N	1:A:135:LYS:HD3	2.35	0.41
2:B:107:LYS:HA	2:B:140:TYR:OH	2.21	0.41
2:B:208:ASN:O	2:B:210:GLY:N	2.53	0.41
1:A:51:ILE:HD12	1:A:58:THR:HG22	2.03	0.41
2:B:119:PRO:HB3	2:B:207:PHE:CZ	2.54	0.41
3:C:59:MET:HG3	3:C:112:TYR:CE2	2.56	0.41
1:A:50:ARG:HG2	1:A:51:ILE:N	2.34	0.41
1:A:195:LEU:HD23	1:A:195:LEU:HA	1.94	0.41
1:A:33:ASP:HB2	1:A:99:TRP:HB2	2.02	0.40
2:B:54:LEU:HD23	2:B:54:LEU:HA	1.84	0.40
2:B:22:THR:HG22	2:B:72:THR:HG22	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:54:ILE:HD13	3:C:54:ILE:HG21	1.81	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	A	221/227 (97%)	214 (97%)	6 (3%)	1 (0%)	24 26
2	B	208/212 (98%)	198 (95%)	9 (4%)	1 (0%)	24 26
3	C	113/126 (90%)	109 (96%)	4 (4%)	0	100 100
All	All	542/565 (96%)	521 (96%)	19 (4%)	2 (0%)	30 33

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	219	PRO
2	B	209	ARG

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	A	181/188 (96%)	176 (97%)	5 (3%)	38 50
2	B	185/187 (99%)	180 (97%)	5 (3%)	39 52

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
3	C	96/111 (86%)	95 (99%)	1 (1%)	68 80
All	All	462/486 (95%)	451 (98%)	11 (2%)	43 56

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

Mol	Chain	Res	Type
1	A	29	LEU
1	A	144	LEU
1	A	157	THR
1	A	175	VAL
1	A	195	LEU
2	B	50	SER
2	B	109	THR
2	B	132	VAL
2	B	147	SER
2	B	198	GLN
3	C	93	SER

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (11) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	13	GLN
1	A	39	GLN
1	A	170	HIS
2	B	38	GLN
2	B	79	GLN
2	B	124	GLN
2	B	137	ASN
2	B	189	HIS
2	B	198	GLN
3	C	83	GLN
3	C	107	GLN

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 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	$\#\|Z\| > 2$
6	NAG	C	201	3	14,14,15	1.15	2 (14%)	17,19,21	0.75	0
4	EDO	A	301	-	3,3,3	0.55	0	2,2,2	0.23	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	NAG	C	201	3	-	2/6/23/26	0/1/1/1
4	EDO	A	301	-	-	1/1/1/1	-

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	C	201	NAG	O5-C1	3.61	1.49	1.43
6	C	201	NAG	C1-C2	2.06	1.55	1.52

There are no bond angle outliers.

There are no chirality outliers.

All (3) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
6	C	201	NAG	C1-C2-N2-C7
4	A	301	EDO	O1-C1-C2-O2
6	C	201	NAG	C3-C2-N2-C7

There are no ring outliers.

1 monomer is involved in 6 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	A	301	EDO	6	0

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, 95^{th} 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	220/227 (96%)	-0.11	2 (0%)	81	79	13, 33, 51, 67	3 (1%)
2	B	210/212 (99%)	0.10	5 (2%)	59	57	15, 37, 62, 75	0
3	C	115/126 (91%)	-0.24	2 (1%)	69	67	14, 22, 42, 63	0
All	All	545/565 (96%)	-0.06	9 (1%)	69	67	13, 32, 57, 75	3 (0%)

All (9) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	B	210	GLY	3.6
3	C	133	LEU	3.5
1	A	1	GLU	2.9
2	B	199	GLY	2.6
3	C	132	ALA	2.5
2	B	158	ASN	2.3
2	B	154	LEU	2.1
1	A	102	TYR	2.0
2	B	145	LYS	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 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, 95^{th} 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
6	NAG	C	201	14/15	0.50	0.20	57,67,72,80	0
5	CL	C	202	1/1	0.93	0.12	47,47,47,47	0
4	EDO	A	301	4/4	0.94	0.20	23,24,26,30	0
5	CL	B	301	1/1	0.95	0.10	48,48,48,48	0
5	CL	A	302	1/1	0.99	0.04	37,37,37,37	0

6.5 Other polymers (i)

There are no such residues in this entry.