



wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 9, 2026 – 09:25 AM UTC

PDB ID : 6SRV / pdb_00006srv
Title : Structure of the arginase-2-inhibitory human antigen-binding fragment Fab C0021144
Authors : Burschowsky, D.; Addyman, A.; Fiedler, S.; Groves, M.; Haynes, S.; See-wooruthun, C.; Carr, M.
Deposited on : 2019-09-06
Resolution : 2.40 Å(reported)

This is a wwPDB X-ray Structure Validation Summary 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

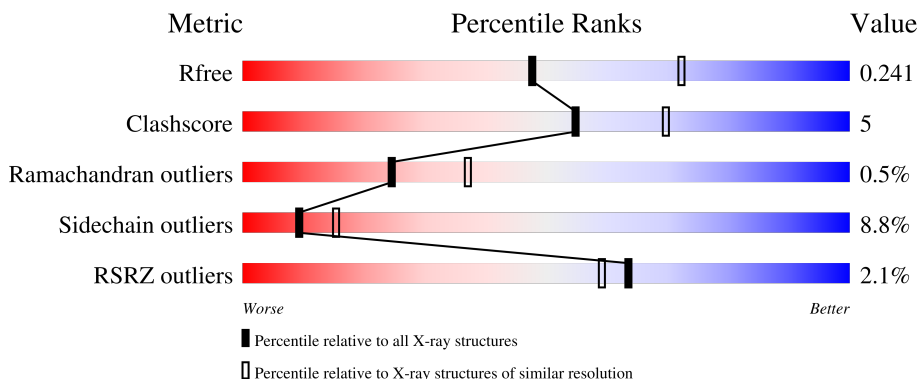
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

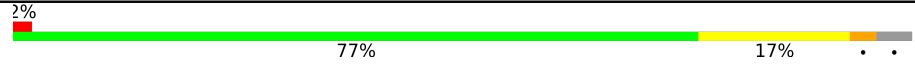



The reported resolution of this entry is 2.40 Å.

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	4912 (2.40-2.40)
Clashscore	190562	5391 (2.40-2.40)
Ramachandran outliers	187476	5320 (2.40-2.40)
Sidechain outliers	187428	5321 (2.40-2.40)
RSRZ outliers	180081	4916 (2.40-2.40)

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	HHH	233	 2% 77% 17% 4% 2%
1	III	233	 4% 74% 20% 2% 2%
2	LLL	220	 1% 81% 14% 2% 2%
2	MMM	220	 1% 79% 17% 2% 2%

2 Entry composition

There are 7 unique types of molecules in this entry. The entry contains 13237 atoms, of which 6544 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 C0021144 heavy chain (IgG1).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
			Total	C	H	N	O				S
1	HHH	224	Total 3321	C 1052	H 1647	N 287	O 328	S 7	94	0	0
1	III	223	Total 3309	C 1048	H 1643	N 286	O 325	S 7	94	0	0

- Molecule 2 is a protein called Fab C0021144 light chain (IgG1).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
			Total	C	H	N	O				S
2	LLL	214	Total 3118	C 988	H 1539	N 261	O 326	S 4	105	0	0
2	MMM	213	Total 3103	C 983	H 1533	N 260	O 323	S 4	105	0	0

- Molecule 3 is CHLORIDE ION (CCD ID: CL) (formula: Cl).

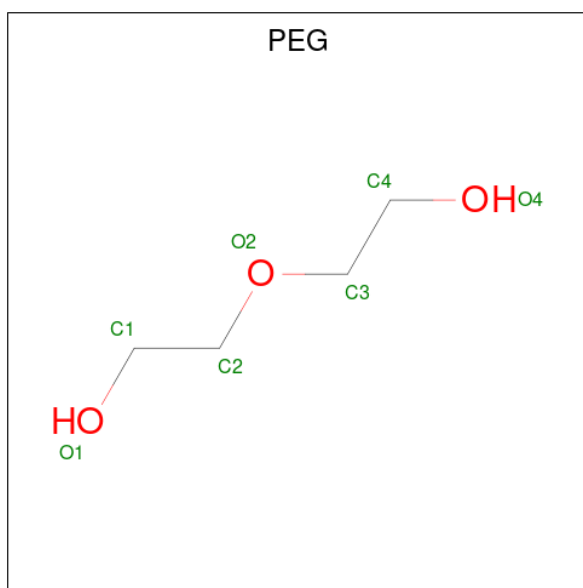
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	HHH	1	Total Cl 1 1	0	0
3	III	2	Total Cl 2 2	0	0

- Molecule 4 is 1,2-ETHANEDIOL (CCD ID: EDO) (formula: C₂H₆O₂).



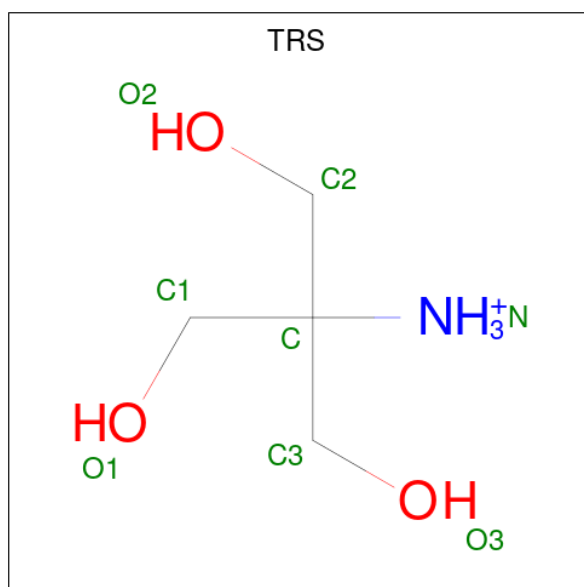
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
4	HHH	1	Total	C	H	O	1	0
			10	2	6	2		
4	HHH	1	Total	C	H	O	1	0
			10	2	6	2		
4	HHH	1	Total	C	H	O	1	0
			10	2	6	2		
4	HHH	1	Total	C	H	O	1	0
			10	2	6	2		
4	HHH	1	Total	C	H	O	1	0
			10	2	6	2		
4	HHH	1	Total	C	H	O	1	0
			10	2	6	2		
4	HHH	1	Total	C	H	O	1	0
			10	2	6	2		
4	HHH	1	Total	C	H	O	1	0
			10	2	6	2		
4	III	1	Total	C	H	O	1	0
			10	2	6	2		
4	MMM	1	Total	C	H	O	1	0
			10	2	6	2		
4	MMM	1	Total	C	H	O	1	0
			10	2	6	2		
4	MMM	1	Total	C	H	O	1	0
			10	2	6	2		
4	MMM	1	Total	C	H	O	1	0
			10	2	6	2		

- Molecule 5 is DI(HYDROXYETHYL)ETHER (CCD ID: PEG) (formula: $C_4H_{10}O_3$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
5	HHH	1	Total	C	H	O	1	0
			17	4	10	3		
5	HHH	1	Total	C	H	O	1	0
			17	4	10	3		
5	III	1	Total	C	H	O	1	0
			17	4	10	3		
5	III	1	Total	C	H	O	1	0
			17	4	10	3		
5	III	1	Total	C	H	O	1	0
			17	4	10	3		

- Molecule 6 is 2-AMINO-2-HYDROXYMETHYL-PROPANE-1,3-DIOL (CCD ID: TRS) (formula: $C_4H_{12}NO_3$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	
			Total	C	H	N			O
6	HHH	1	Total	C	H	N	O	2	0
			20	4	12	1	3		
6	HHH	1	Total	C	H	N	O	2	0
			20	4	12	1	3		
6	LLL	1	Total	C	H	N	O	2	0
			20	4	12	1	3		
6	MMM	1	Total	C	H	N	O	2	0
			20	4	12	1	3		

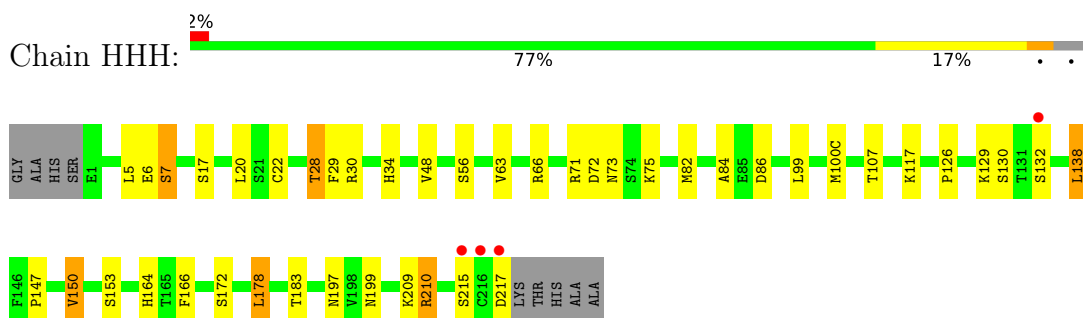
- Molecule 7 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	HHH	20	Total	O	0	0
			20	20		
7	III	23	Total	O	0	0
			23	23		
7	LLL	21	Total	O	0	0
			21	21		
7	MMM	14	Total	O	0	0
			14	14		

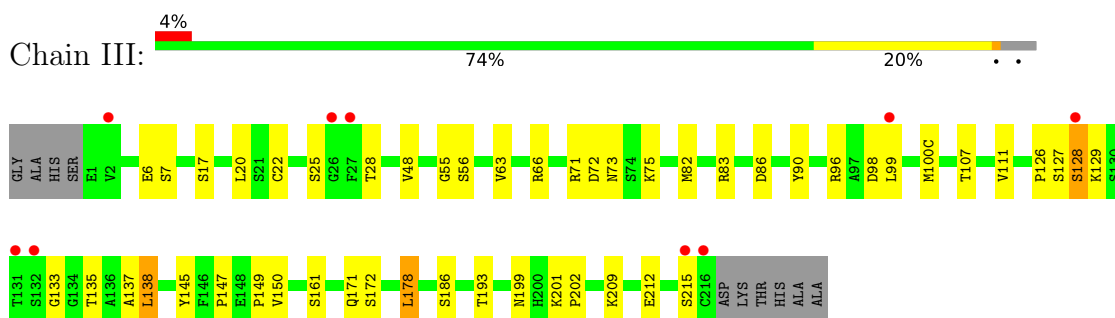
3 Residue-property plots [i](#)

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.

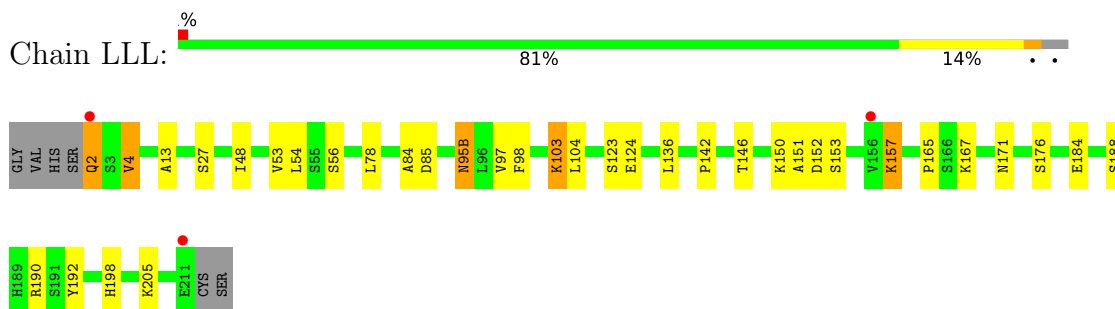
- Molecule 1: Fab C0021144 heavy chain (IgG1)



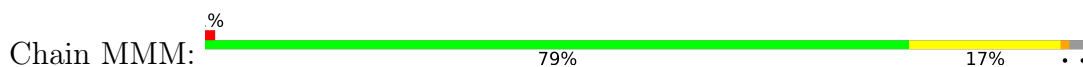
- Molecule 1: Fab C0021144 heavy chain (IgG1)

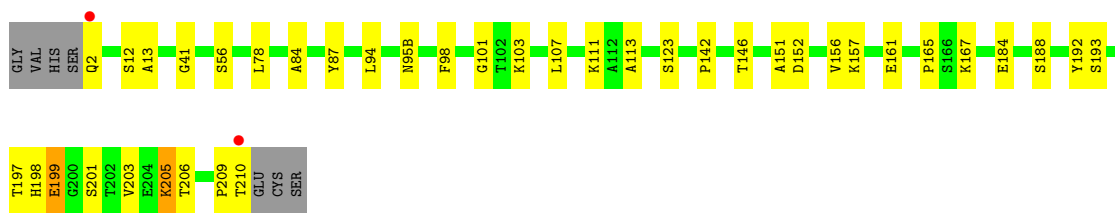


- Molecule 2: Fab C0021144 light chain (IgG1)



- Molecule 2: Fab C0021144 light chain (IgG1)





4 Data and refinement statistics i

Property	Value	Source
Space group	H 3 2	Depositor
Cell constants a, b, c, α , β , γ	172.69Å 172.69Å 211.26Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	49.90 – 2.40 49.90 – 2.40	Depositor EDS
% Data completeness (in resolution range)	99.9 (49.90-2.40) 99.9 (49.90-2.40)	Depositor EDS
R_{merge}	0.36	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.58 (at 2.39Å)	Xtriage
Refinement program	REFMAC 5.8.0253	Depositor
R, R_{free}	0.205 , 0.241 0.205 , 0.241	Depositor DCC
R_{free} test set	2368 reflections (4.85%)	wwPDB-VP
Wilson B-factor (Å ²)	55.8	Xtriage
Anisotropy	0.525	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.39 , 35.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	0.000 for $-2/3^*h-1/3^*k+2/3^*l,-1/3^*h-2/3^*k-2/3^*l,2/3^*h-2/3^*k+1/3^*l$ 0.000 for $-h,1/3^*h-1/3^*k+2/3^*l,2/3^*h+4/3^*k+1/3^*l$ 0.000 for $-1/3^*h+1/3^*k-2/3^*l,-k,-4/3^*h-2/3^*k+1/3^*l$	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	13237	wwPDB-VP
Average B, all atoms (Å ²)	67.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.96% 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: TRS, CL, PEG, EDO

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	HHH	1.13	1/1712 (0.1%)	1.48	10/2329 (0.4%)
1	III	1.12	0/1704	1.45	5/2318 (0.2%)
2	LLL	1.13	1/1617 (0.1%)	1.44	3/2213 (0.1%)
2	MMM	1.16	1/1608 (0.1%)	1.44	3/2201 (0.1%)
All	All	1.14	3/6641 (0.0%)	1.45	21/9061 (0.2%)

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	HHH	0	1
1	III	0	1
All	All	0	2

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	LLL	165	PRO	C-O	-5.59	1.16	1.23
2	MMM	165	PRO	C-O	-5.41	1.17	1.23
1	HHH	34	HIS	CE1-NE2	5.01	1.37	1.32

The worst 5 of 21 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	III	22	CYS	CB-CA-C	6.95	119.83	110.94
2	MMM	156	VAL	CA-C-O	-6.71	113.74	120.31
1	HHH	22	CYS	CB-CA-C	6.64	119.66	111.43
1	HHH	183	THR	CA-CB-OG1	-6.37	100.04	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	LLL	152	ASP	CB-CA-C	-6.10	102.89	111.80

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	HHH	7	SER	Peptide
1	III	133	GLY	Peptide

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	HHH	1674	1647	1646	18	0
1	III	1666	1643	1642	19	0
2	LLL	1579	1539	1534	16	0
2	MMM	1570	1533	1528	16	0
3	HHH	1	0	0	0	0
3	III	2	0	0	0	0
4	HHH	36	54	54	0	0
4	III	4	6	6	0	0
4	MMM	16	24	24	1	0
5	HHH	14	20	20	0	0
5	III	21	30	30	1	0
6	HHH	16	24	24	1	0
6	LLL	8	12	12	0	0
6	MMM	8	12	12	1	0
7	HHH	20	0	0	1	0
7	III	23	0	0	1	0
7	LLL	21	0	0	1	0
7	MMM	14	0	0	0	0
All	All	6693	6544	6532	63	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 5.

The worst 5 of 63 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:III:178:LEU:C	1:III:178:LEU:HD12	2.13	0.74
1:HHH:178:LEU:C	1:HHH:178:LEU:HD12	2.15	0.70
2:LLL:48:ILE:HG12	2:LLL:54:LEU:HD23	1.83	0.60
2:MMM:142:PRO:O	2:MMM:198:HIS:HE1	1.85	0.60
1:III:20:LEU:HG	1:III:82:MET:HE2	1.84	0.58

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	HHH	222/233 (95%)	210 (95%)	11 (5%)	1 (0%)	24	37
1	III	221/233 (95%)	212 (96%)	8 (4%)	1 (0%)	24	37
2	LLL	212/220 (96%)	199 (94%)	12 (6%)	1 (0%)	24	37
2	MMM	211/220 (96%)	196 (93%)	14 (7%)	1 (0%)	24	37
All	All	866/906 (96%)	817 (94%)	45 (5%)	4 (0%)	24	37

All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	HHH	132	SER
2	MMM	84	ALA
2	LLL	84	ALA
1	III	55	GLY

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	HHH	186/191 (97%)	168 (90%)	18 (10%)	8	12
1	III	185/191 (97%)	163 (88%)	22 (12%)	5	7
2	LLL	180/185 (97%)	167 (93%)	13 (7%)	13	23
2	MMM	179/185 (97%)	168 (94%)	11 (6%)	17	30
All	All	730/752 (97%)	666 (91%)	64 (9%)	9	15

5 of 64 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	MMM	123	SER
2	MMM	157	LYS
1	III	98	ASP
1	III	96	ARG
2	MMM	167	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

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](#)

Of 26 ligands modelled in this entry, 3 are monoatomic - leaving 23 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
4	EDO	HHH	309	-	3,3,3	0.12	0	2,2,2	0.06	0
5	PEG	HHH	311	-	6,6,6	0.18	0	5,5,5	0.07	0
5	PEG	III	306	-	6,6,6	0.22	0	5,5,5	0.17	0
4	EDO	MMM	303	-	3,3,3	0.07	0	2,2,2	0.06	0
4	EDO	HHH	304	-	3,3,3	0.11	0	2,2,2	0.05	0
6	TRS	MMM	305	-	7,7,7	0.20	0	9,9,9	0.45	0
6	TRS	HHH	314	-	7,7,7	0.21	0	9,9,9	0.40	0
5	PEG	III	304	-	6,6,6	0.19	0	5,5,5	0.17	0
4	EDO	HHH	306	-	3,3,3	0.08	0	2,2,2	0.14	0
4	EDO	III	303	-	3,3,3	0.12	0	2,2,2	0.11	0
4	EDO	MMM	301	-	3,3,3	0.09	0	2,2,2	0.10	0
4	EDO	HHH	310	-	3,3,3	0.08	0	2,2,2	0.09	0
4	EDO	HHH	303	-	3,3,3	0.10	0	2,2,2	0.21	0
6	TRS	LLL	301	-	7,7,7	0.20	0	9,9,9	0.36	0
6	TRS	HHH	313	-	7,7,7	0.17	0	9,9,9	0.40	0
4	EDO	HHH	302	-	3,3,3	0.15	0	2,2,2	0.14	0
4	EDO	MMM	302	-	3,3,3	0.14	0	2,2,2	0.19	0
5	PEG	III	305	-	6,6,6	0.17	0	5,5,5	0.14	0
4	EDO	MMM	304	-	3,3,3	0.07	0	2,2,2	0.12	0
4	EDO	HHH	305	-	3,3,3	0.15	0	2,2,2	0.23	0
4	EDO	HHH	308	-	3,3,3	0.15	0	2,2,2	0.21	0
4	EDO	HHH	307	-	3,3,3	0.14	0	2,2,2	0.05	0
5	PEG	HHH	312	-	6,6,6	0.17	0	5,5,5	0.11	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
4	EDO	HHH	309	-	-	1/1/1/1	-
5	PEG	HHH	311	-	-	3/4/4/4	-
5	PEG	III	306	-	-	1/4/4/4	-
4	EDO	MMM	303	-	-	1/1/1/1	-
4	EDO	HHH	304	-	-	1/1/1/1	-
6	TRS	MMM	305	-	-	1/9/9/9	-
6	TRS	HHH	314	-	-	4/9/9/9	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
5	PEG	III	304	-	-	3/4/4/4	-
4	EDO	HHH	306	-	-	1/1/1/1	-
4	EDO	III	303	-	-	1/1/1/1	-
4	EDO	MMM	301	-	-	1/1/1/1	-
4	EDO	HHH	310	-	-	1/1/1/1	-
4	EDO	HHH	303	-	-	1/1/1/1	-
6	TRS	LLL	301	-	-	5/9/9/9	-
6	TRS	HHH	313	-	-	5/9/9/9	-
4	EDO	HHH	302	-	-	0/1/1/1	-
4	EDO	MMM	302	-	-	1/1/1/1	-
5	PEG	III	305	-	-	3/4/4/4	-
4	EDO	MMM	304	-	-	1/1/1/1	-
4	EDO	HHH	305	-	-	1/1/1/1	-
4	EDO	HHH	308	-	-	1/1/1/1	-
4	EDO	HHH	307	-	-	1/1/1/1	-
5	PEG	HHH	312	-	-	2/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

5 of 40 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
6	HHH	313	TRS	C1-C-C2-O2
6	HHH	314	TRS	C1-C-C2-O2
6	HHH	314	TRS	N-C-C2-O2
5	III	305	PEG	O2-C3-C4-O4
6	HHH	313	TRS	C3-C-C2-O2

There are no ring outliers.

4 monomers are involved in 4 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	III	306	PEG	1	0
6	MMM	305	TRS	1	0
6	HHH	313	TRS	1	0
4	MMM	304	EDO	1	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 [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	HHH	224/233 (96%)	-0.29	4 (1%) 67 63	43, 57, 88, 148	0
1	III	223/233 (95%)	-0.28	9 (4%) 42 38	43, 57, 99, 125	0
2	LLL	214/220 (97%)	-0.08	3 (1%) 73 69	50, 71, 101, 126	0
2	MMM	213/220 (96%)	-0.16	2 (0%) 81 78	51, 69, 90, 114	0
All	All	874/906 (96%)	-0.20	18 (2%) 63 59	43, 62, 97, 148	0

The worst 5 of 18 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	MMM	2	GLN	5.0
2	LLL	2	GLN	5.0
1	III	216	CYS	4.4
2	MMM	210	THR	3.9
1	III	27	PHE	3.7

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(\AA^2)	Q<0.9
6	TRS	HHH	314	8/8	0.78	0.18	55,102,118,120	2
4	EDO	MMM	302	4/4	0.82	0.18	55,96,97,97	1
4	EDO	HHH	310	4/4	0.82	0.21	55,83,84,85	1
4	EDO	HHH	306	4/4	0.85	0.21	55,82,88,88	1
4	EDO	HHH	304	4/4	0.86	0.16	55,81,82,83	1
4	EDO	MMM	303	4/4	0.86	0.20	55,77,91,94	1
5	PEG	III	304	7/7	0.86	0.18	55,81,93,94	1
6	TRS	HHH	313	8/8	0.86	0.17	55,89,98,103	2
4	EDO	III	303	4/4	0.86	0.13	55,68,71,72	1
6	TRS	MMM	305	8/8	0.86	0.17	55,95,117,120	2
4	EDO	HHH	302	4/4	0.87	0.16	55,72,76,79	1
4	EDO	HHH	308	4/4	0.87	0.16	55,79,83,84	1
4	EDO	MMM	304	4/4	0.87	0.20	55,84,86,87	1
5	PEG	HHH	312	7/7	0.87	0.17	55,94,96,101	1
4	EDO	HHH	305	4/4	0.88	0.14	55,78,80,81	1
5	PEG	HHH	311	7/7	0.88	0.28	55,96,113,115	17
5	PEG	III	305	7/7	0.88	0.16	55,92,96,96	1
6	TRS	LLL	301	8/8	0.91	0.11	55,85,96,97	2
5	PEG	III	306	7/7	0.91	0.14	55,95,101,103	1
4	EDO	HHH	307	4/4	0.92	0.17	55,77,78,79	1
4	EDO	HHH	309	4/4	0.92	0.14	55,74,76,79	1
4	EDO	HHH	303	4/4	0.93	0.11	55,64,65,67	1
3	CL	III	301	1/1	0.94	0.08	56,56,56,56	1
4	EDO	MMM	301	4/4	0.94	0.12	55,65,70,71	1
3	CL	III	302	1/1	0.95	0.18	79,79,79,79	0
3	CL	HHH	301	1/1	0.98	0.25	55,55,55,55	1

6.5 Other polymers [\(i\)](#)

There are no such residues in this entry.