



wwPDB X-ray Structure Validation Summary Report ⓘ

Feb 1, 2016 – 10:15 PM GMT

PDB ID : 4X6D
Title : CD1a ternary complex with endogenous lipids and BK6 TCR
Authors : Birkinshaw, R.W.; Rossjohn, J.
Deposited on : 2014-12-08
Resolution : 2.98 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
<http://wwpdb.org/validation/2016/XrayValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

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

MolProbity : 4.02b-467
Mogul : 1.7 (RC4), CSD as536be (2015)
Xtriage (Phenix) : 1.9-1692
EDS : rb-20026688
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
Refmac : 5.8.0135
CCP4 : 6.5.0
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : trunk26865

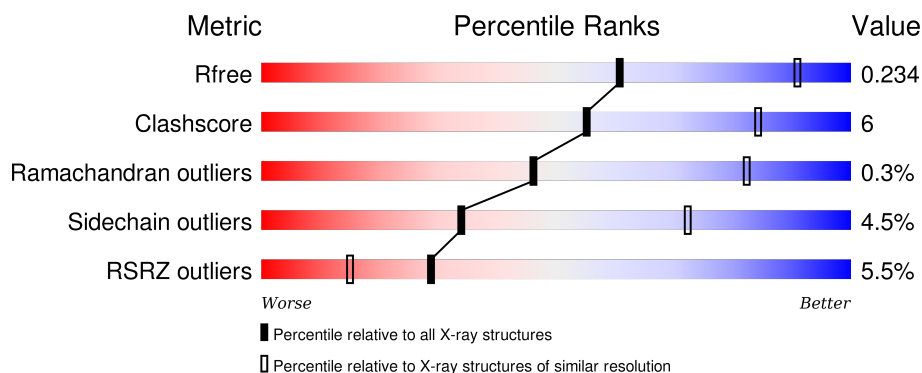
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.98 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}	91344	1992 (3.00-2.96)
Clashscore	102246	2349 (3.00-2.96)
Ramachandran outliers	100387	2274 (3.00-2.96)
Sidechain outliers	100360	2277 (3.00-2.96)
RSRZ outliers	91569	2007 (3.00-2.96)

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 ≥ 3 , 2, 1 and 0 types of geometric quality criteria. 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	A	275	<div> <div>3%</div> <div>74%</div> <div>20%</div> <div>• •</div> </div>
1	C	275	<div> <div>9%</div> <div>61%</div> <div>17%</div> <div>•</div> <div>21%</div> </div>
2	B	99	<div> <div>18%</div> <div>69%</div> <div>17%</div> <div>•</div> <div>13%</div> </div>
2	D	99	<div> <div>20%</div> <div>60%</div> <div>19%</div> <div></div> <div>21%</div> </div>
3	E	207	<div> <div>%</div> <div>82%</div> <div>9%</div> <div></div> <div>9%</div> </div>

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Mol	Chain	Length	Quality of chain
3	G	207	
4	F	245	
4	H	245	

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
6	OLA	A	304	-	-	-	X
8	PAM	C	304	-	-	-	X

2 Entry composition

There are 9 unique types of molecules in this entry. The entry contains 12304 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 T-cell surface glycoprotein CD1a.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	267	Total	C	N	O	S	0	0	0
			2153	1379	375	391	8			
1	C	218	Total	C	N	O	S	0	0	0
			1787	1152	312	318	5			

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	13	ILE	THR	variant	UNP P06126
A	51	TRP	CYS	variant	UNP P06126
C	13	ILE	THR	variant	UNP P06126
C	51	TRP	CYS	variant	UNP P06126

- Molecule 2 is a protein called Beta-2-microglobulin.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	86	Total	C	N	O	S	0	0	0
			719	463	119	135	2			
2	D	78	Total	C	N	O	S	0	0	0
			657	427	107	121	2			

- Molecule 3 is a protein called TCR alpha.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	E	189	Total	C	N	O	S	0	0	0
			1474	924	238	302	10			
3	G	200	Total	C	N	O	S	0	0	0
			1560	975	253	322	10			

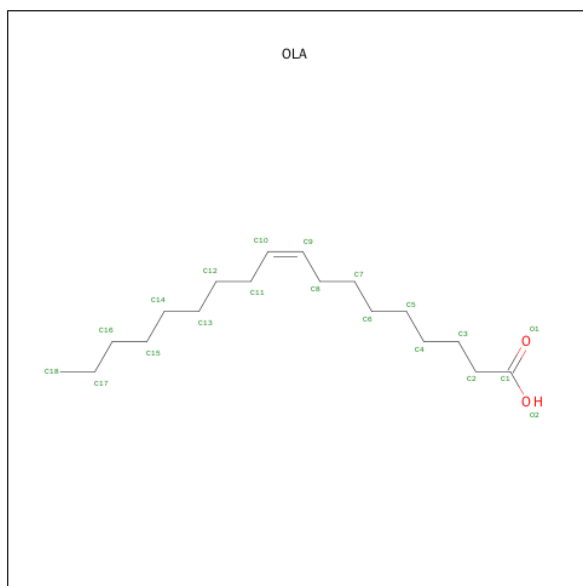
- Molecule 4 is a protein called TCR beta.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	F	241	Total	C	N	O	S	0	0	0
			1917	1216	333	358	10			
4	H	242	Total	C	N	O	S	0	0	0
			1922	1219	334	359	10			

- Molecule 5 is a polymer of unknown type called SUGAR (3-MER).

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
5	A	3	Total	C	N	O	0	0
			38	22	2	14		

- Molecule 6 is OLEIC ACID (three-letter code: OLA) (formula: $C_{18}H_{34}O_2$).

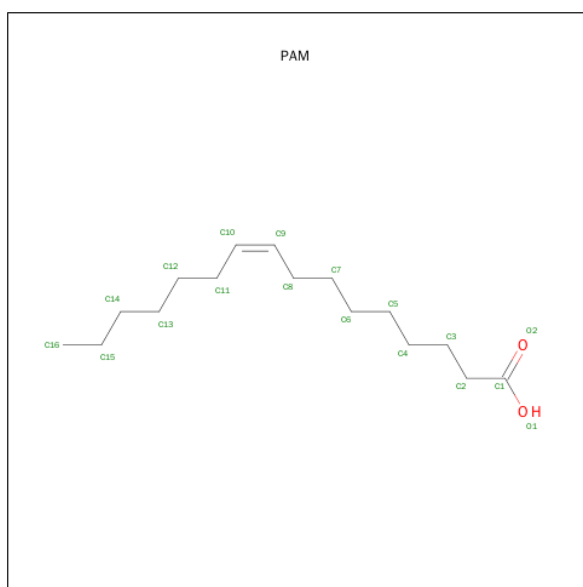


Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
6	A	1	Total	C	O	0	0
			20	18	2		

- Molecule 7 is a polymer of unknown type called SUGAR (3-MER).

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
7	C	3	Total	C	N	O	0	0
			38	22	2	14		

- Molecule 8 is PALMITOLEIC ACID (three-letter code: PAM) (formula: $C_{16}H_{30}O_2$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
8	C	1	Total	C	O	0	0
			18	16	2		

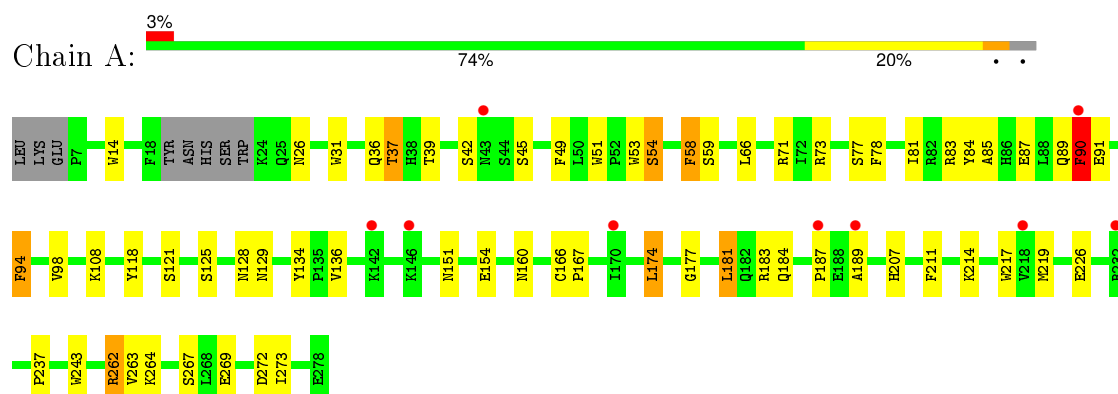
- Molecule 9 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
9	H	1	Total	O	0	0
			1	1		

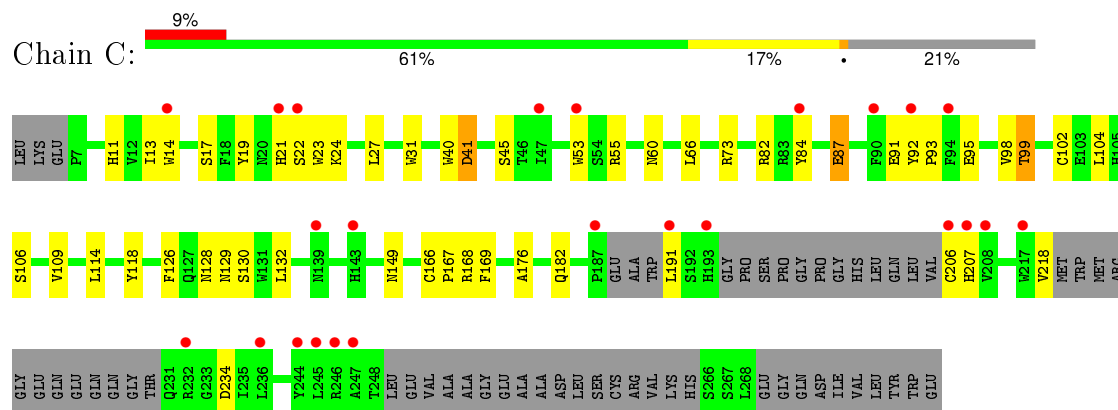
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors 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.

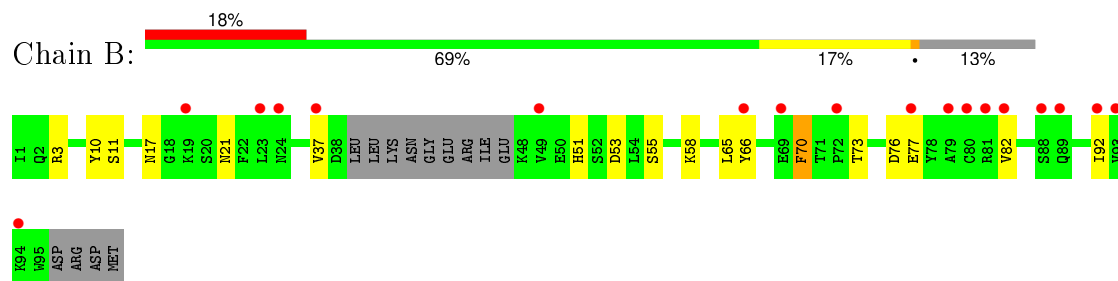
- Molecule 1: T-cell surface glycoprotein CD1a



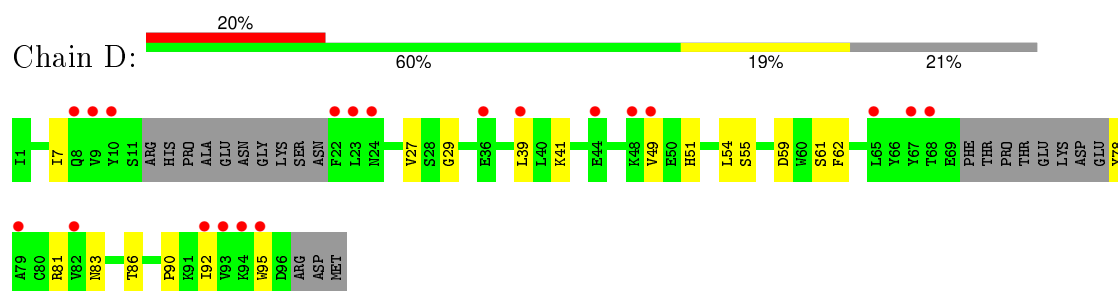
- Molecule 1: T-cell surface glycoprotein CD1a



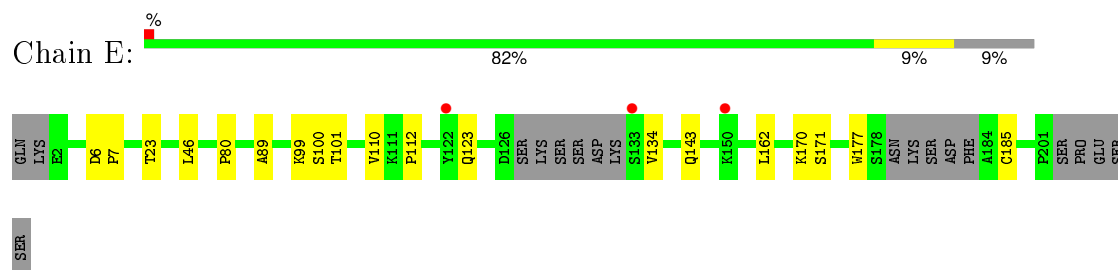
- Molecule 2: Beta-2-microglobulin



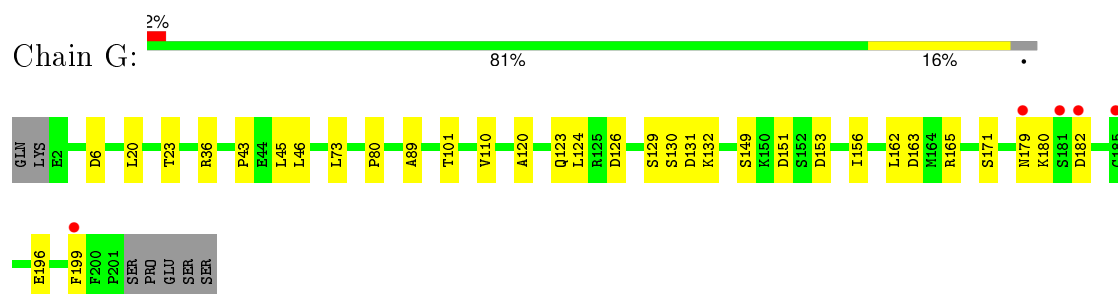
- Molecule 2: Beta-2-microglobulin



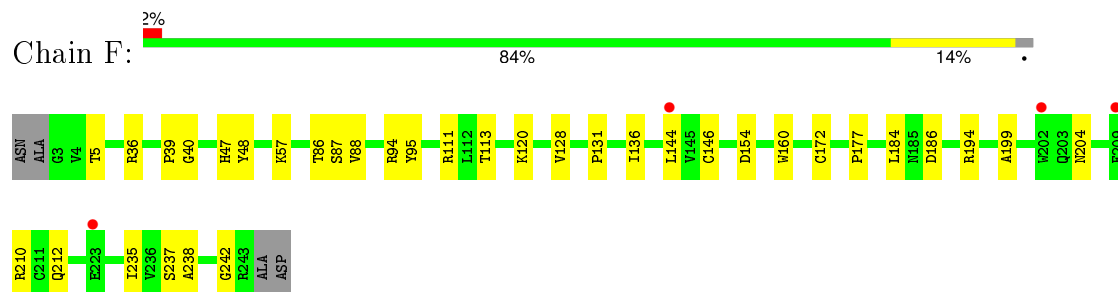
- Molecule 3: TCR alpha



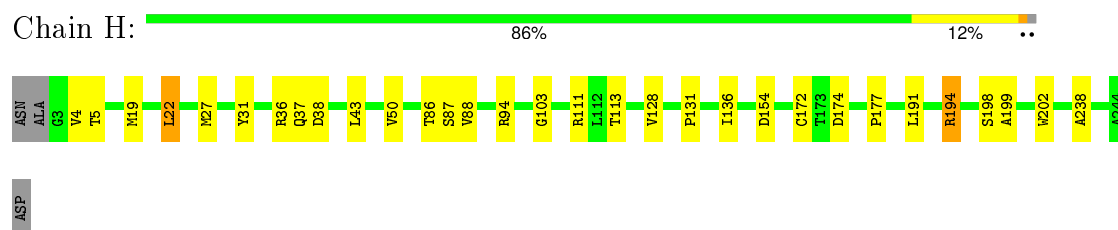
- Molecule 3: TCR alpha



- Molecule 4: TCR beta



- Molecule 4: TCR beta



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	90.13Å 126.32Å 226.85Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	48.00 – 2.98 48.00 – 2.98	Depositor EDS
% Data completeness (in resolution range)	100.0 (48.00-2.98) 100.0 (48.00-2.98)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.35 (at 2.96Å)	Xtriage
Refinement program	PHENIX (PHENIX.REFINE: 1.9_1692)	Depositor
R, R_{free}	0.177 , 0.229 0.188 , 0.234	Depositor DCC
R_{free} test set	2663 reflections (5.22%)	DCC
Wilson B-factor (Å ²)	77.8	Xtriage
Anisotropy	0.406	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.31 , 66.3	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Outliers	0 of 53696 reflections	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	12304	wwPDB-VP
Average B, all atoms (Å ²)	98.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.83% 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, 0.375 respectively for untwinned datasets, and 0.333, 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: FUC, OLA, PAM, NAG

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	0.38	0/2221	0.53	0/3021
1	C	0.32	0/1844	0.50	0/2503
2	B	0.32	0/741	0.46	0/1005
2	D	0.32	0/674	0.45	0/911
3	E	0.45	0/1507	0.59	0/2045
3	G	0.45	0/1596	0.59	0/2165
4	F	0.44	0/1970	0.58	0/2678
4	H	0.45	0/1975	0.61	1/2685 (0.0%)
All	All	0.41	0/12528	0.56	1/17013 (0.0%)

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	H	22	LEU	CA-CB-CG	6.26	129.70	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	A	2153	0	2038	50	0
1	C	1787	0	1693	25	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	B	719	0	683	10	0
2	D	657	0	636	8	0
3	E	1474	0	1383	8	0
3	G	1560	0	1467	19	0
4	F	1917	0	1840	20	0
4	H	1922	0	1845	19	0
5	A	38	0	34	4	0
6	A	20	0	33	0	0
7	C	38	0	31	2	0
8	C	18	0	29	3	0
9	H	1	0	0	0	0
All	All	12304	0	11712	152	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 6.

The worst 5 of 152 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:84:TYR:HD1	1:A:87:GLU:OE2	1.41	1.02
1:A:84:TYR:CD1	1:A:87:GLU:OE2	2.18	0.96
1:C:168:ARG:HD2	7:C:302:NAG:C8	2.06	0.84
3:G:149:SER:HB2	3:G:156:ILE:HD12	1.60	0.83
1:A:51:TRP:O	1:A:54:SER:HB2	1.79	0.83

There are no symmetry-related clashes.

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	A	263/275 (96%)	244 (93%)	17 (6%)	2 (1%)	24 65

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	C	208/275 (76%)	184 (88%)	23 (11%)	1 (0%)	34	75
2	B	82/99 (83%)	77 (94%)	5 (6%)	0	100	100
2	D	72/99 (73%)	68 (94%)	4 (6%)	0	100	100
3	E	183/207 (88%)	179 (98%)	4 (2%)	0	100	100
3	G	198/207 (96%)	192 (97%)	5 (2%)	1 (0%)	34	75
4	F	239/245 (98%)	232 (97%)	7 (3%)	0	100	100
4	H	240/245 (98%)	232 (97%)	8 (3%)	0	100	100
All	All	1485/1652 (90%)	1408 (95%)	73 (5%)	4 (0%)	46	82

All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	58	PHE
1	A	90	PHE
3	G	130	SER
1	C	41	ASP

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	A	231/240 (96%)	213 (92%)	18 (8%)	16	47
1	C	195/240 (81%)	181 (93%)	14 (7%)	18	52
2	B	82/94 (87%)	77 (94%)	5 (6%)	23	60
2	D	75/94 (80%)	70 (93%)	5 (7%)	20	56
3	E	169/187 (90%)	164 (97%)	5 (3%)	48	82
3	G	180/187 (96%)	175 (97%)	5 (3%)	51	83
4	F	207/209 (99%)	204 (99%)	3 (1%)	74	92
4	H	207/209 (99%)	201 (97%)	6 (3%)	50	83
All	All	1346/1460 (92%)	1285 (96%)	61 (4%)	34	72

5 of 61 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	C	27	LEU
1	C	182	GLN
4	H	22	LEU
1	C	45	SER
1	C	87	GLU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	153	HIS

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 ⓘ

6 carbohydrates 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$
5	NAG	A	301	1,5	14,14,15	1.18	1 (7%)	15,19,21	2.57	7 (46%)
5	FUC	A	302	5	10,10,11	0.48	0	14,14,16	2.10	4 (28%)
5	NAG	A	303	5	14,14,15	0.61	0	15,19,21	1.03	0
7	FUC	C	301	7	10,10,11	0.34	0	14,14,16	1.48	3 (21%)
7	NAG	C	302	1,7	14,14,15	1.05	1 (7%)	15,19,21	1.18	2 (13%)
7	NAG	C	303	7	14,14,15	0.34	0	15,19,21	0.24	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
5	NAG	A	301	1,5	-	0/6/23/26	0/1/1/1
5	FUC	A	302	5	-	0/0/17/20	0/1/1/1
5	NAG	A	303	5	-	0/6/23/26	0/1/1/1
7	FUC	C	301	7	-	0/0/17/20	0/1/1/1
7	NAG	C	302	1,7	-	0/6/23/26	0/1/1/1
7	NAG	C	303	7	-	0/6/23/26	0/1/1/1

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	A	301	NAG	C1-C2	3.38	1.57	1.52
7	C	302	NAG	C1-C2	3.58	1.57	1.52

The worst 5 of 16 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	A	301	NAG	C6-C5-C4	-3.07	105.45	113.02
5	A	301	NAG	C3-C2-N2	-2.82	103.81	110.56
5	A	301	NAG	O6-C6-C5	-2.51	103.03	111.33
7	C	301	FUC	O5-C5-C4	-2.45	105.28	109.53
5	A	301	NAG	O5-C5-C6	-2.34	102.27	107.35

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

3 monomers are involved in 6 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	A	301	NAG	4	0
5	A	303	NAG	4	0
7	C	302	NAG	2	0

5.6 Ligand geometry ⓘ

2 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	$\# Z > 2$
6	OLA	A	304	-	16,19,19	0.73	1 (6%)	16,19,19	0.58	0
8	PAM	C	304	-	14,17,17	0.77	1 (7%)	14,17,17	0.78	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	OLA	A	304	-	-	0/15/17/17	0/0/0/0
8	PAM	C	304	-	-	0/13/15/15	0/0/0/0

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	A	304	OLA	C10-C9	2.72	1.47	1.31
8	C	304	PAM	C10-C9	2.76	1.47	1.31

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

1 monomer is involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
8	C	304	PAM	3	0

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

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	A	267/275 (97%)	0.31	9 (3%) 49 28	57, 100, 152, 204	0
1	C	218/275 (79%)	0.53	24 (11%) 7 4	57, 121, 186, 222	0
2	B	86/99 (86%)	1.03	18 (20%) 1 1	86, 136, 178, 200	0
2	D	78/99 (78%)	1.07	20 (25%) 1 1	87, 140, 177, 198	0
3	E	189/207 (91%)	0.14	3 (1%) 74 54	43, 73, 137, 178	0
3	G	200/207 (96%)	0.14	5 (2%) 61 38	46, 75, 141, 176	0
4	F	241/245 (98%)	0.07	4 (1%) 73 51	44, 76, 123, 150	0
4	H	242/245 (98%)	0.03	0 100 100	42, 74, 120, 154	0
All	All	1521/1652 (92%)	0.30	83 (5%) 29 15	42, 91, 161, 222	0

The worst 5 of 83 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	92	TYR	5.5
1	C	208	VAL	5.3
2	D	82	VAL	5.2
1	C	244	TYR	5.2
2	D	23	LEU	4.5

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 ⓘ

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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains.

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	LLDF	B-factors(Å ²)	Q<0.9
7	NAG	C	302	14/15	0.86	0.31	1.98	104,125,140,141	0
5	NAG	A	301	14/15	0.95	0.21	0.29	96,107,124,133	0
5	FUC	A	302	10/11	0.91	0.30	-	134,143,160,165	0
7	FUC	C	301	10/11	0.89	0.37	-	118,142,149,153	0
7	NAG	C	303	14/15	0.85	0.28	-	125,129,137,140	0
5	NAG	A	303	14/15	0.90	0.23	-	121,129,135,135	0

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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. 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	LLDF	B-factors(Å ²)	Q<0.9
8	PAM	C	304	18/18	0.83	0.70	5.89	78,90,159,163	0
6	OLA	A	304	20/20	0.83	0.49	5.38	75,88,133,134	0

6.5 Other polymers [i](#)

There are no such residues in this entry.