



Full wwPDB X-ray Structure Validation Report ⓘ

Jun 25, 2024 – 01:51 AM EDT

PDB ID : 5O9S
Title : HsNMT1 in complex with CoA and Myristoylated-GKSNSKLLK octapeptide
Authors : Dian, C.; Meinnel, T.; Giglione, C.
Deposited on : 2017-06-20
Resolution : 2.70 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 : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.37.1
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) : 2.37.1

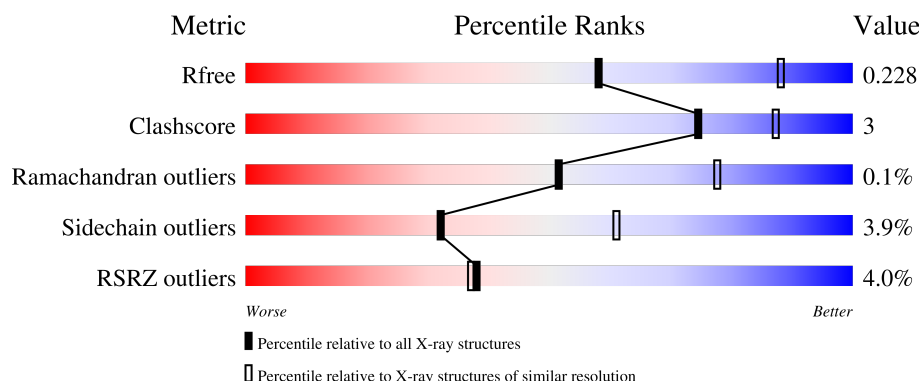
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.70 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	2808 (2.70-2.70)
Clashscore	141614	3122 (2.70-2.70)
Ramachandran outliers	138981	3069 (2.70-2.70)
Sidechain outliers	138945	3069 (2.70-2.70)
RSRZ outliers	127900	2737 (2.70-2.70)

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	A	402	<div> <div>3%</div> <div>84%</div> <div>9%</div> <div>6%</div> </div>
1	B	402	<div> <div>3%</div> <div>86%</div> <div>8%</div> <div>5%</div> </div>
2	C	8	<div> <div>62%</div> <div>75%</div> <div>25%</div> </div>
2	D	8	<div> <div>12%</div> <div>88%</div> <div>12%</div> </div>

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 6438 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 Glycylpeptide N-tetradecanoyltransferase 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	378	Total	C	N	O	S	0	0	0
			3023	1969	498	542	14			
1	B	381	Total	C	N	O	S	0	0	0
			3068	1993	513	547	15			

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	95	GLY	-	expression tag	UNP P30419
A	96	GLY	-	expression tag	UNP P30419
A	97	SER	-	expression tag	UNP P30419
A	98	GLU	-	expression tag	UNP P30419
B	95	GLY	-	expression tag	UNP P30419
B	96	GLY	-	expression tag	UNP P30419
B	97	SER	-	expression tag	UNP P30419
B	98	GLU	-	expression tag	UNP P30419

- Molecule 2 is a protein called Neuronal calcium sensor 1.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
2	C	8	Total	C	N	O	0	0	0
			60	36	12	12			
2	D	8	Total	C	N	O	0	0	0
			56	33	11	12			

- Molecule 3 is GLYCEROL (three-letter code: GOL) (formula: C₃H₈O₃).

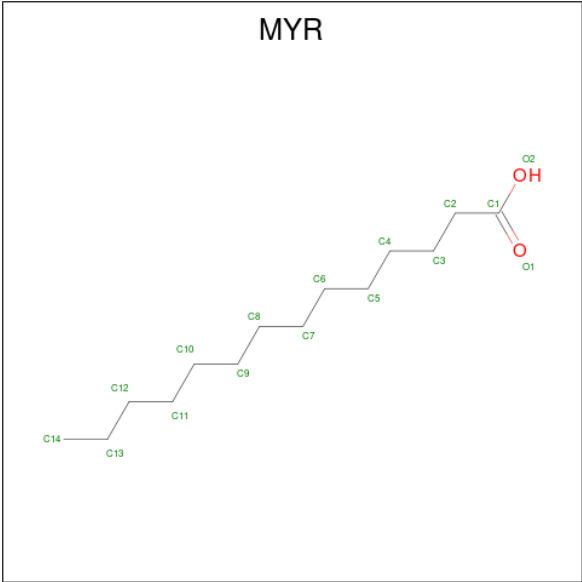


Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	C	O	0	0
			6	3	3		
3	A	1	Total	C	O	0	0
			6	3	3		
3	B	1	Total	C	O	0	0
			6	3	3		
3	B	1	Total	C	O	0	0
			6	3	3		

- Molecule 4 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	1	Total	Cl	0	0
			1	1		
4	B	2	Total	Cl	0	0
			2	2		

- Molecule 5 is MYRISTIC ACID (three-letter code: MYR) (formula: C₁₄H₂₈O₂).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	C	1	Total	C	O	0	0
			15	14	1		
5	D	1	Total	C	O	0	0
			15	14	1		

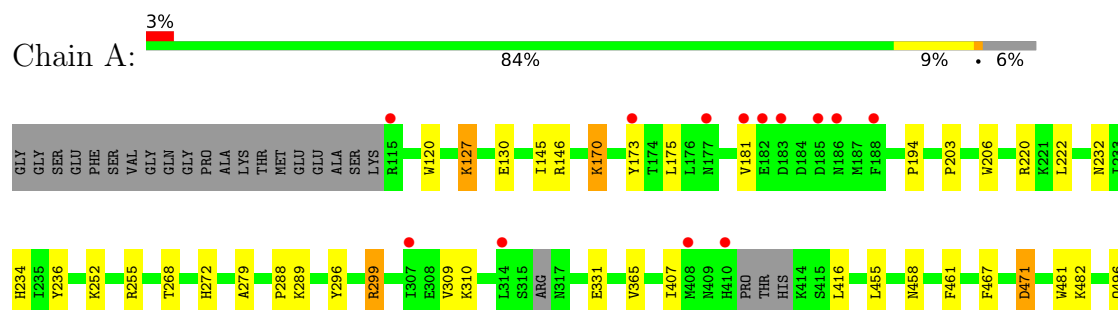
- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	88	Total	O	0	0
			88	88		
6	B	85	Total	O	0	0
			85	85		
6	D	1	Total	O	0	0
			1	1		

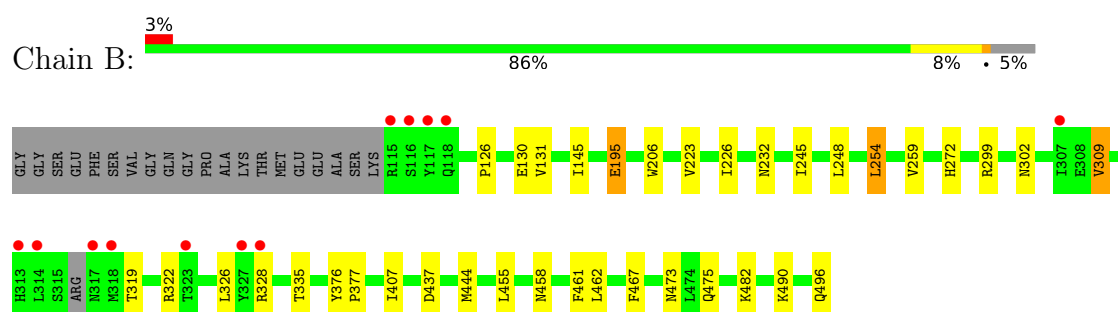
3 Residue-property plots [i](#)

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.

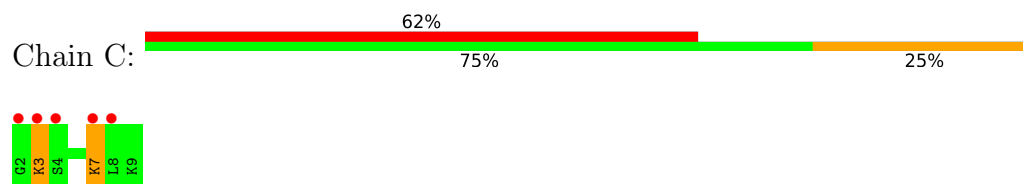
- Molecule 1: Glycylpeptide N-tetradecanoyltransferase 1



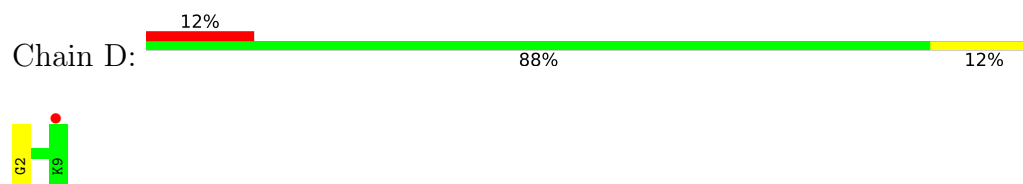
- Molecule 1: Glycylpeptide N-tetradecanoyltransferase 1



- Molecule 2: Neuronal calcium sensor 1



- Molecule 2: Neuronal calcium sensor 1



4 Data and refinement statistics

Property	Value	Source
Space group	P 2 ₁ 2 ₁ 2 ₁	Depositor
Cell constants a, b, c, α , β , γ	58.02Å 80.25Å 178.15Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	48.62 – 2.70 48.62 – 2.70	Depositor EDS
% Data completeness (in resolution range)	99.4 (48.62-2.70) 99.4 (48.62-2.70)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.13	Depositor
$\langle I/\sigma(I) \rangle$ ¹	4.54 (at 2.69Å)	Xtriage
Refinement program	PHENIX (1.10.1_2155: ???)	Depositor
R, R_{free}	0.175 , 0.227 0.175 , 0.228	Depositor DCC
R_{free} test set	1138 reflections (4.84%)	wwPDB-VP
Wilson B-factor (Å ²)	25.5	Xtriage
Anisotropy	0.885	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.37 , 44.8	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	0.93	EDS
Total number of atoms	6438	wwPDB-VP
Average B, all atoms (Å ²)	23.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 18.65% 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: MYR, GOL, 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	0.26	0/3106	0.44	0/4229
1	B	0.26	0/3156	0.45	0/4299
2	C	0.69	0/59	0.50	0/73
2	D	0.84	1/55 (1.8%)	0.55	0/69
All	All	0.28	1/6376 (0.0%)	0.45	0/8670

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	D	2	GLY	C-N	-5.84	1.20	1.34

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	A	3023	0	2960	24	0
1	B	3068	0	3004	15	0
2	C	60	0	68	3	0
2	D	56	0	57	0	0
3	A	12	0	16	2	0
3	B	12	0	16	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	A	1	0	0	0	0
4	B	2	0	0	1	0
5	C	15	0	27	4	0
5	D	15	0	27	1	0
6	A	88	0	0	2	0
6	B	85	0	0	0	0
6	D	1	0	0	0	0
All	All	6438	0	6175	40	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 (40) 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:B:309:VAL:HG21	1:B:407:ILE:HD13	1.70	0.73
1:B:496:GLN:HE22	3:B:504:GOL:H32	1.58	0.68
1:B:223:VAL:HB	1:B:254:LEU:HD21	1.78	0.66
1:A:268:THR:HG23	5:C:101:MYR:H132	1.77	0.66
1:A:220:ARG:NH2	6:A:603:HOH:O	2.31	0.62
1:B:126:PRO:HG3	1:B:482:LYS:HG2	1.82	0.61
1:A:252:LYS:HA	1:A:255:ARG:HG3	1.85	0.58
1:A:170:LYS:HA	1:A:173:TYR:CE2	2.39	0.58
1:A:481:TRP:O	3:A:501:GOL:O2	2.22	0.57
1:B:254:LEU:HD12	1:B:259:VAL:HG21	1.88	0.56
1:A:471:ASP:OD2	2:C:7:LYS:NZ	2.39	0.55
1:A:146:ARG:NH2	6:A:607:HOH:O	2.40	0.55
1:A:173:TYR:CE2	1:A:194:PRO:HG3	2.43	0.54
1:B:335:THR:OG1	1:B:437:ASP:OD1	2.17	0.53
1:B:195:GLU:H	1:B:195:GLU:CD	2.13	0.52
1:A:145:ILE:HG12	1:A:272:HIS:HB3	1.91	0.52
1:A:309:VAL:HG11	1:A:407:ILE:HD13	1.92	0.52
1:B:145:ILE:HD12	1:B:272:HIS:HB3	1.91	0.51
1:B:131:VAL:HG13	4:B:502:CL:CL	2.48	0.50
1:A:458:ASN:HA	1:A:461:PHE:CE2	2.46	0.50
1:A:181:VAL:HG11	2:C:3:LYS:O	2.12	0.50
1:B:245:ILE:HG13	5:D:101:MYR:H92	1.95	0.49
1:B:226:ILE:HD12	1:B:248:LEU:HD13	1.95	0.48
1:A:127:LYS:HA	1:A:288:PRO:HB3	1.96	0.48
1:A:175:LEU:HD22	1:A:222:LEU:HG	1.96	0.47
1:A:130:GLU:O	1:A:289:LYS:HE3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:234:HIS:NE2	1:A:236:TYR:O	2.48	0.46
1:A:232:ASN:HB3	1:A:365:VAL:HB	1.99	0.45
1:B:458:ASN:HA	1:B:461:PHE:CE2	2.52	0.45
1:A:299:ARG:HB2	1:A:467:PHE:CE2	2.52	0.45
1:A:120:TRP:HH2	5:C:101:MYR:H61	1.82	0.44
1:B:299:ARG:HB2	1:B:467:PHE:CE2	2.53	0.43
1:A:279:ALA:HB2	5:C:101:MYR:H122	2.00	0.43
1:B:490:LYS:HA	1:B:490:LYS:HD3	1.71	0.43
1:A:288:PRO:HA	1:A:289:LYS:HA	1.85	0.43
1:A:296:TYR:OH	2:C:3:LYS:HD3	2.19	0.43
5:C:101:MYR:H121	5:C:101:MYR:H91	1.70	0.41
1:A:203:PRO:O	1:A:206:TRP:HD1	2.03	0.41
1:A:496:GLN:NE2	3:A:503:GOL:O1	2.41	0.41
1:B:376:TYR:HA	1:B:377:PRO:HD3	1.97	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	372/402 (92%)	360 (97%)	11 (3%)	1 (0%)	41	66
1	B	377/402 (94%)	368 (98%)	9 (2%)	0	100	100
2	C	6/8 (75%)	6 (100%)	0	0	100	100
2	D	6/8 (75%)	5 (83%)	1 (17%)	0	100	100
All	All	761/820 (93%)	739 (97%)	21 (3%)	1 (0%)	51	78

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	471	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	325/362 (90%)	317 (98%)	8 (2%)	47	76
1	B	332/362 (92%)	316 (95%)	16 (5%)	25	53
2	C	7/7 (100%)	5 (71%)	2 (29%)	0	1
2	D	6/7 (86%)	6 (100%)	0	100	100
All	All	670/738 (91%)	644 (96%)	26 (4%)	32	61

All (26) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	127	LYS
1	A	170	LYS
1	A	299	ARG
1	A	310	LYS
1	A	331	GLU
1	A	416	LEU
1	A	455	LEU
1	A	482	LYS
1	B	130	GLU
1	B	195	GLU
1	B	206	TRP
1	B	232	ASN
1	B	254	LEU
1	B	302	ASN
1	B	309	VAL
1	B	319	THR
1	B	322	ARG
1	B	326	LEU
1	B	328	ARG
1	B	444	MET
1	B	455	LEU
1	B	462	LEU
1	B	473	ASN
1	B	475	GLN

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Mol	Chain	Res	Type
2	C	3	LYS
2	C	7	LYS

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

Mol	Chain	Res	Type
1	A	123	GLN
1	B	496	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 monosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 9 ligands modelled in this entry, 3 are monoatomic - leaving 6 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	$\# Z > 2$
3	GOL	B	504	-	5,5,5	0.35	0	5,5,5	0.34	0
5	MYR	D	101	2	14,14,15	0.43	0	13,13,15	0.84	0
3	GOL	A	503	-	5,5,5	0.34	0	5,5,5	0.24	0
3	GOL	B	501	-	5,5,5	0.35	0	5,5,5	0.29	0
3	GOL	A	501	-	5,5,5	0.39	0	5,5,5	0.38	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
5	MYR	C	101	2	14,14,15	0.48	0	13,13,15	0.83	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
3	GOL	B	504	-	-	4/4/4/4	-
5	MYR	D	101	2	-	1/11/12/13	-
3	GOL	A	503	-	-	2/4/4/4	-
3	GOL	B	501	-	-	4/4/4/4	-
3	GOL	A	501	-	-	4/4/4/4	-
5	MYR	C	101	2	-	7/11/12/13	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (22) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	501	GOL	O1-C1-C2-C3
3	A	501	GOL	C1-C2-C3-O3
3	A	503	GOL	O1-C1-C2-C3
3	B	501	GOL	O1-C1-C2-C3
3	B	501	GOL	C1-C2-C3-O3
3	B	504	GOL	O1-C1-C2-O2
3	B	504	GOL	O1-C1-C2-C3
5	C	101	MYR	C9-C10-C11-C12
3	A	501	GOL	O1-C1-C2-O2
3	A	503	GOL	O1-C1-C2-O2
3	B	504	GOL	C1-C2-C3-O3
5	C	101	MYR	C4-C5-C6-C7
3	A	501	GOL	O2-C2-C3-O3
3	B	501	GOL	O1-C1-C2-O2
3	B	501	GOL	O2-C2-C3-O3
5	C	101	MYR	C3-C4-C5-C6
5	C	101	MYR	C1-C2-C3-C4
5	C	101	MYR	C2-C3-C4-C5
5	D	101	MYR	C4-C5-C6-C7

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Mol	Chain	Res	Type	Atoms
5	C	101	MYR	C7-C8-C9-C10
5	C	101	MYR	C10-C11-C12-C13
3	B	504	GOL	O2-C2-C3-O3

There are no ring outliers.

5 monomers are involved in 8 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	B	504	GOL	1	0
5	D	101	MYR	1	0
3	A	503	GOL	1	0
3	A	501	GOL	1	0
5	C	101	MYR	4	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, 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	378/402 (94%)	-0.08	13 (3%) 45 45	9, 19, 49, 69	0
1	B	381/402 (94%)	-0.10	12 (3%) 49 49	9, 20, 49, 71	0
2	C	8/8 (100%)	2.51	5 (62%) 0 0	36, 47, 51, 53	0
2	D	8/8 (100%)	0.29	1 (12%) 3 3	20, 23, 30, 49	0
All	All	775/820 (94%)	-0.06	31 (4%) 38 37	9, 20, 50, 71	0

All (31) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	C	8	LEU	5.6
1	B	314	LEU	4.3
1	A	182	GLU	4.0
1	B	323	THR	3.4
1	B	115	ARG	3.2
1	B	318	MET	3.2
1	A	183	ASP	3.1
1	A	181	VAL	3.1
1	A	410	HIS	3.0
1	B	116	SER	2.9
1	A	314	LEU	2.9
1	B	307	ILE	2.8
1	A	173	TYR	2.8
1	B	328	ARG	2.7
2	C	4	SER	2.6
1	B	317	ASN	2.6
1	B	117	TYR	2.5
1	B	327	TYR	2.5
1	B	118	GLN	2.5
1	A	307	ILE	2.5
1	A	177	ASN	2.4

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Mol	Chain	Res	Type	RSRZ
2	C	3	LYS	2.4
2	C	7	LYS	2.4
1	A	186	ASN	2.3
1	A	408	MET	2.3
1	B	313	HIS	2.2
1	A	185	ASP	2.2
1	A	188	PHE	2.2
2	D	9	LYS	2.0
1	A	115	ARG	2.0
2	C	2	GLY	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 monosaccharides 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(Å ²)	Q<0.9
3	GOL	B	504	6/6	0.89	0.36	27,28,36,42	0
3	GOL	A	503	6/6	0.92	0.21	28,37,39,43	0
5	MYR	C	101	15/16	0.92	0.20	7,12,28,29	0
4	CL	B	502	1/1	0.93	0.17	48,48,48,48	0
4	CL	B	503	1/1	0.93	0.09	35,35,35,35	0
3	GOL	A	501	6/6	0.93	0.19	10,17,23,26	0
3	GOL	B	501	6/6	0.94	0.17	17,29,32,35	0
4	CL	A	502	1/1	0.96	0.10	40,40,40,40	0
5	MYR	D	101	15/16	0.97	0.15	9,13,17,20	0

6.5 Other polymers [i](#)

There are no such residues in this entry.