



wwPDB X-ray Structure Validation Summary Report ⓘ

Dec 15, 2024 – 10:18 PM EST

PDB ID : 5JMF
Title : Heparinase III-BT4657 gene product
Authors : Ulaganathan, T.S.; Shi, R.; Yao, D.; Garron, M.-L.; Cherney, M.; Cygler, M.
Deposited on : 2016-04-28
Resolution : 1.85 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	:	4.02b-467
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	1.21
EDS	:	3.0
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4	:	9.0.004 (Gargrove)
Density-Fitness	:	1.0.11
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.40

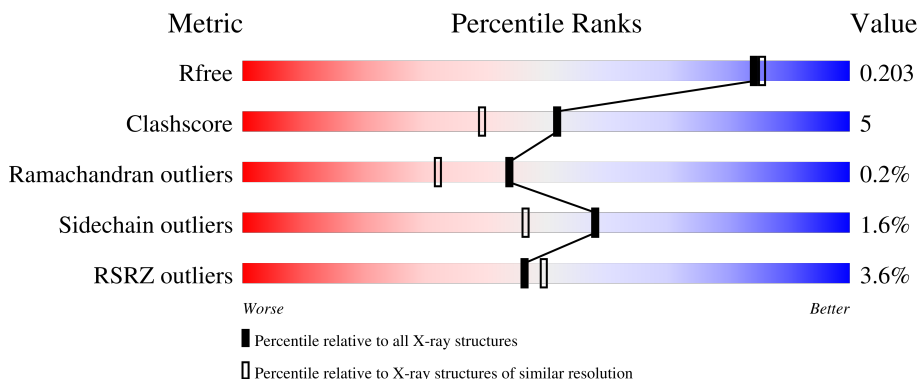
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION


The reported resolution of this entry is 1.85 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}	164625	3097 (1.86-1.86)
Clashscore	180529	3359 (1.86-1.86)
Ramachandran outliers	177936	3335 (1.86-1.86)
Sidechain outliers	177891	3335 (1.86-1.86)
RSRZ outliers	164620	3097 (1.86-1.86)

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	655	

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 5829 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 Heparinase III protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	638	Total	C	N	O	S	15	9	0
			5278	3402	882	969	25			

There are 11 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	12	SER	-	expression tag	UNP Q89YS4
A	13	ASP	-	expression tag	UNP Q89YS4
A	14	SER	-	expression tag	UNP Q89YS4
A	15	GLU	-	expression tag	UNP Q89YS4
A	16	ASN	-	expression tag	UNP Q89YS4
A	17	LEU	-	expression tag	UNP Q89YS4
A	18	TYR	-	expression tag	UNP Q89YS4
A	19	PHE	-	expression tag	UNP Q89YS4
A	20	GLN	-	expression tag	UNP Q89YS4
A	21	GLY	-	expression tag	UNP Q89YS4
A	22	SER	-	expression tag	UNP Q89YS4

- Molecule 2 is GLYCEROL (three-letter code: GOL) (formula: C₃H₈O₃).



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

- Molecule 3 is 2-AMINO-2-HYDROXYMETHYL-PROPANE-1,3-DIOL (three-letter code: TRS) (formula: $C_4H_{12}NO_3$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	1	Total	C	N	O	0	0
			8	4	1	3		

- Molecule 4 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	1	Total 1	Mg 1	0	0

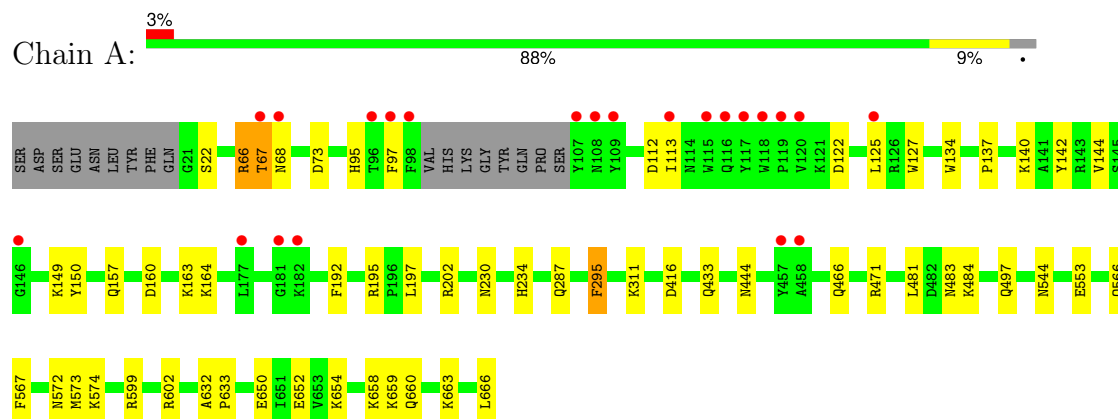
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	536	Total 536	O 536	0	0

3 Residue-property plots

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: Heparinase III protein



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	186.69Å 45.74Å 80.51Å 90.00° 94.05° 90.00°	Depositor
Resolution (Å)	20.50 – 1.85 20.50 – 1.85	Depositor EDS
% Data completeness (in resolution range)	98.7 (20.50-1.85) 92.2 (20.50-1.85)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	0.75 (at 1.85Å)	Xtriage
Refinement program	PHENIX (1.10.1_2155: ???)	Depositor
R, R_{free}	0.165 , 0.203 0.165 , 0.203	Depositor DCC
R_{free} test set	2904 reflections (5.09%)	wwPDB-VP
Wilson B-factor (Å ²)	26.3	Xtriage
Anisotropy	0.482	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 54.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	5829	wwPDB-VP
Average B, all atoms (Å ²)	42.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.92% 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: MLY, MG, TRS, 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	A	0.50	0/5157	0.58	1/7001 (0.0%)

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)
1	A	66	ARG	C-N-CA	6.13	137.01	121.70

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	5278	0	5049	51	1
2	A	6	0	8	0	1
3	A	8	0	12	1	0
4	A	1	0	0	0	0
5	A	536	0	0	4	1
All	All	5829	0	5069	52	2

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 52 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:202:ARG:HE	1:A:234:HIS:HE1	1.16	0.89
1:A:567:PHE:H	1:A:572:ASN:HD21	1.32	0.78
1:A:134:TRP:HE1	1:A:157:GLN:HE22	1.36	0.74
1:A:202:ARG:HE	1:A:234:HIS:CE1	2.05	0.73
1:A:287:GLN:HG2	1:A:295:PHE:HE1	1.54	0.73

All (2) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:658:MLY:CH1	2:A:701:GOL:O1[2_656]	1.38	0.82
5:A:1099:HOH:O	5:A:1108:HOH:O[4_546]	2.12	0.08

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	618/655 (94%)	598 (97%)	19 (3%)	1 (0%)	44 32

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	67	THR

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	525/554 (95%)	516 (98%)	9 (2%)	56	44

5 of 9 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	660[A]	GLN
1	A	660[B]	GLN
1	A	497	GLN
1	A	544	ASN
1	A	573	MET

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 7 such sidechains are listed below:

Mol	Chain	Res	Type
1	A	234	HIS
1	A	444	ASN
1	A	572	ASN
1	A	466	GLN
1	A	157	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

25 non-standard protein/DNA/RNA residues 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	$\# Z > 2$
1	MLY	A	663	1	9,10,11	0.73	0	6,11,13	0.86	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	MLY	A	399	1	9,10,11	0.72	0	6,11,13	0.61	0
1	MLY	A	658	1	9,10,11	0.72	0	6,11,13	0.73	0
1	MLY	A	57	1	9,10,11	0.60	0	6,11,13	0.74	0
1	MLY	A	654	1	9,10,11	1.08	1 (11%)	6,11,13	0.77	0
1	MLY	A	540	1	9,10,11	0.64	0	6,11,13	0.63	0
1	MLY	A	574	1	9,10,11	0.90	0	6,11,13	1.23	1 (16%)
1	MLY	A	140	1	9,10,11	0.75	0	6,11,13	0.81	0
1	MLY	A	267	1	9,10,11	0.63	0	6,11,13	0.87	0
1	MLY	A	44	1	9,10,11	0.74	0	6,11,13	0.84	0
1	MLY	A	361	1	9,10,11	0.67	0	6,11,13	0.80	0
1	MLY	A	627	1	9,10,11	0.79	0	6,11,13	0.75	0
1	MLY	A	311	1	9,10,11	0.69	0	6,11,13	0.63	0
1	MLY	A	377	1	9,10,11	0.55	0	6,11,13	1.10	0
1	MLY	A	382	1	9,10,11	0.82	0	6,11,13	0.93	0
1	MLY	A	610	1	9,10,11	0.78	0	6,11,13	0.75	0
1	MLY	A	587	1	9,10,11	0.62	0	6,11,13	0.72	0
1	MLY	A	335	1	9,10,11	0.75	0	6,11,13	0.78	0
1	MLY	A	26	1	9,10,11	0.70	0	6,11,13	0.72	0
1	MLY	A	628	1	9,10,11	0.67	0	6,11,13	0.74	0
1	MLY	A	274	1	9,10,11	0.78	0	6,11,13	0.64	0
1	MLY	A	389	1	9,10,11	0.96	0	6,11,13	0.98	0
1	MLY	A	484	1	9,10,11	0.58	0	6,11,13	0.80	0
1	MLY	A	494	1	9,10,11	0.65	0	6,11,13	0.94	0
1	MLY	A	634	1	9,10,11	0.66	0	6,11,13	0.58	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
1	MLY	A	663	1	-	0/8/9/11	-
1	MLY	A	399	1	-	1/8/9/11	-
1	MLY	A	658	1	-	3/8/9/11	-
1	MLY	A	57	1	-	1/8/9/11	-
1	MLY	A	654	1	-	0/8/9/11	-
1	MLY	A	540	1	-	0/8/9/11	-
1	MLY	A	574	1	-	0/8/9/11	-
1	MLY	A	140	1	-	0/8/9/11	-
1	MLY	A	267	1	-	1/8/9/11	-
1	MLY	A	44	1	-	0/8/9/11	-
1	MLY	A	361	1	-	1/8/9/11	-

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	MLY	A	627	1	-	2/8/9/11	-
1	MLY	A	311	1	-	2/8/9/11	-
1	MLY	A	377	1	-	1/8/9/11	-
1	MLY	A	382	1	-	1/8/9/11	-
1	MLY	A	610	1	-	0/8/9/11	-
1	MLY	A	587	1	-	2/8/9/11	-
1	MLY	A	335	1	-	1/8/9/11	-
1	MLY	A	26	1	-	2/8/9/11	-
1	MLY	A	628	1	-	0/8/9/11	-
1	MLY	A	274	1	-	0/8/9/11	-
1	MLY	A	389	1	-	2/8/9/11	-
1	MLY	A	484	1	-	2/8/9/11	-
1	MLY	A	494	1	-	0/8/9/11	-
1	MLY	A	634	1	-	0/8/9/11	-

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	654	MLY	CE-NZ	2.30	1.54	1.46

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	574	MLY	CH2-NZ-CH1	-2.21	104.04	109.72

There are no chirality outliers.

5 of 22 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	A	389	MLY	O-C-CA-CB
1	A	484	MLY	O-C-CA-CB
1	A	627	MLY	CD-CE-NZ-CH1
1	A	658	MLY	CD-CE-NZ-CH1
1	A	658	MLY	CD-CE-NZ-CH2

There are no ring outliers.

5 monomers are involved in 6 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	A	663	MLY	2	0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	A	658	MLY	0	1
1	A	140	MLY	1	0
1	A	311	MLY	1	0
1	A	484	MLY	1	0

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 3 ligands modelled in this entry, 1 is 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	$\# Z > 2$
3	TRS	A	702	-	7,7,7	0.24	0	9,9,9	0.69	0
2	GOL	A	701	-	5,5,5	0.37	0	5,5,5	0.54	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	TRS	A	702	-	-	6/9/9/9	-
2	GOL	A	701	-	-	2/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

5 of 8 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	701	GOL	O1-C1-C2-O2
2	A	701	GOL	O1-C1-C2-C3
3	A	702	TRS	C2-C-C3-O3
3	A	702	TRS	N-C-C3-O3
3	A	702	TRS	C1-C-C3-O3

There are no ring outliers.

2 monomers are involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	702	TRS	1	0
2	A	701	GOL	0	1

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	A	613/655 (93%)	-0.24	22 (3%) 46 49	11, 35, 85, 141	15 (2%)

The worst 5 of 22 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	120	VAL	5.0
1	A	118	TRP	4.2
1	A	113	ILE	3.5
1	A	98	PHE	3.3
1	A	107	TYR	3.3

6.2 Non-standard residues in protein, DNA, RNA chains [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
1	MLY	A	540	11/12	0.87	0.11	46,50,64,67	0
1	MLY	A	658	11/12	0.88	0.13	33,44,79,91	0
1	MLY	A	610	11/12	0.90	0.10	34,47,63,65	0
1	MLY	A	663	11/12	0.90	0.08	35,38,60,61	0
1	MLY	A	587	11/12	0.91	0.09	39,44,53,56	0
1	MLY	A	361	11/12	0.91	0.10	27,32,46,46	0
1	MLY	A	654	11/12	0.91	0.09	29,32,49,52	0
1	MLY	A	382	11/12	0.91	0.11	22,28,58,58	0
1	MLY	A	335	11/12	0.91	0.10	22,29,53,53	0
1	MLY	A	628	11/12	0.92	0.08	28,32,54,55	0
1	MLY	A	377	11/12	0.92	0.11	26,37,62,64	0
1	MLY	A	140	11/12	0.93	0.07	49,53,58,61	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
1	MLY	A	57	11/12	0.93	0.08	30,36,59,61	0
1	MLY	A	26	11/12	0.94	0.08	34,41,60,61	0
1	MLY	A	311	11/12	0.94	0.10	26,31,61,62	0
1	MLY	A	389	11/12	0.94	0.09	28,31,50,51	0
1	MLY	A	627	11/12	0.94	0.09	24,31,51,52	0
1	MLY	A	634	11/12	0.95	0.07	28,31,40,42	0
1	MLY	A	274	11/12	0.95	0.07	24,27,41,42	0
1	MLY	A	574	11/12	0.95	0.08	21,24,44,51	0
1	MLY	A	484	11/12	0.95	0.07	34,37,52,52	0
1	MLY	A	267	11/12	0.96	0.06	20,23,42,43	0
1	MLY	A	399	11/12	0.97	0.07	19,22,39,42	0
1	MLY	A	494	11/12	0.97	0.07	25,28,53,55	0
1	MLY	A	44	11/12	0.98	0.06	21,24,30,33	0

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(\AA^2)	Q<0.9
3	TRS	A	702	8/8	0.76	0.15	59,62,65,66	0
2	GOL	A	701	6/6	0.80	0.12	58,63,63,64	0
4	MG	A	703	1/1	0.99	0.04	23,23,23,23	0

6.5 Other polymers [i](#)

There are no such residues in this entry.