



wwPDB X-ray Structure Validation Summary Report ⓘ

Feb 1, 2016 – 10:28 AM GMT

PDB ID : 3M3E
Title : Crystal Structure of Agrocybe aegerita lectin AAL mutant E66A complexed with p-Nitrophenyl Thomsen-Friedenreich disaccharide
Authors : Feng, L.; Li, D.; Wang, D.
Deposited on : 2010-03-09
Resolution : 2.10 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

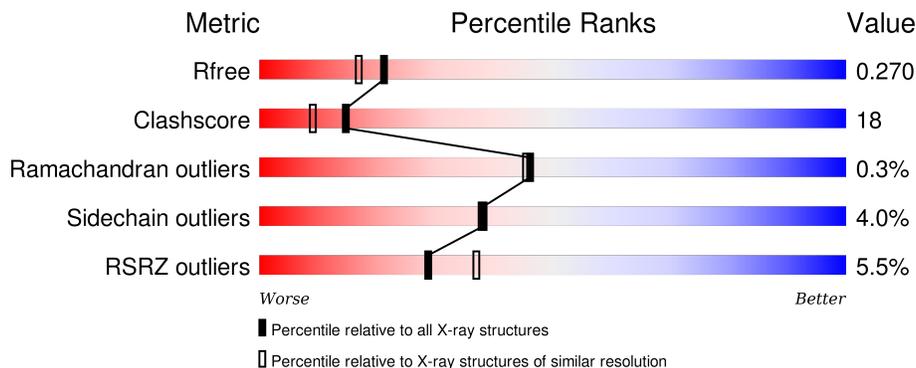
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.10 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	3939 (2.10-2.10)
Clashscore	102246	4460 (2.10-2.10)
Ramachandran outliers	100387	4413 (2.10-2.10)
Sidechain outliers	100360	4414 (2.10-2.10)
RSRZ outliers	91569	3948 (2.10-2.10)

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	161	 2% (red), 72% (green), 24% (yellow), .. (grey)
1	B	161	 4% (red), 67% (green), 28% (yellow), .. (grey)
1	C	161	 9% (red), 67% (green), 31% (yellow), . (grey)
1	D	161	 7% (red), 66% (green), 32% (yellow), .. (grey)

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 5556 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 Anti-tumor lectin.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	159	1202	761	199	240	2	0	0	0
1	B	159	1202	761	199	240	2	0	0	0
1	C	161	1220	772	201	245	2	0	0	0
1	D	160	1210	767	200	241	2	0	0	0

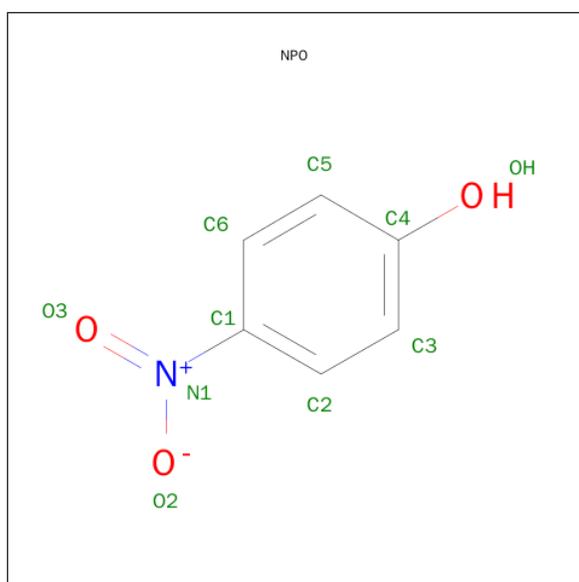
There are 20 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	0	MET	-	EXPRESSION TAG	UNP Q6WY08
A	66	ALA	GLU	ENGINEERED MUTATION	UNP Q6WY08
A	132	SER	LEU	SEE REMARK 999	UNP Q6WY08
A	159	LEU	-	EXPRESSION TAG	UNP Q6WY08
A	160	GLU	-	EXPRESSION TAG	UNP Q6WY08
B	0	MET	-	EXPRESSION TAG	UNP Q6WY08
B	66	ALA	GLU	ENGINEERED MUTATION	UNP Q6WY08
B	132	SER	LEU	SEE REMARK 999	UNP Q6WY08
B	159	LEU	-	EXPRESSION TAG	UNP Q6WY08
B	160	GLU	-	EXPRESSION TAG	UNP Q6WY08
C	0	MET	-	EXPRESSION TAG	UNP Q6WY08
C	66	ALA	GLU	ENGINEERED MUTATION	UNP Q6WY08
C	132	SER	LEU	SEE REMARK 999	UNP Q6WY08
C	159	LEU	-	EXPRESSION TAG	UNP Q6WY08
C	160	GLU	-	EXPRESSION TAG	UNP Q6WY08
D	0	MET	-	EXPRESSION TAG	UNP Q6WY08
D	66	ALA	GLU	ENGINEERED MUTATION	UNP Q6WY08
D	132	SER	LEU	SEE REMARK 999	UNP Q6WY08
D	159	LEU	-	EXPRESSION TAG	UNP Q6WY08
D	160	GLU	-	EXPRESSION TAG	UNP Q6WY08

- Molecule 2 is a polymer of unknown type called SUGAR (2-MER).

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	2	Total	C	N	O	0	0
			25	14	1	10		
2	B	2	Total	C	N	O	0	0
			25	14	1	10		
2	C	2	Total	C	N	O	0	0
			25	14	1	10		
2	D	2	Total	C	N	O	0	0
			25	14	1	10		

- Molecule 3 is P-NITROPHENOL (three-letter code: NPO) (formula: C₆H₅NO₃).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	1	Total	C	N	O	0	0
			10	6	1	3		
3	B	1	Total	C	N	O	0	0
			10	6	1	3		
3	C	1	Total	C	N	O	0	0
			10	6	1	3		
3	D	1	Total	C	N	O	0	0
			10	6	1	3		

- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	164	Total	O	0	0
			164	164		

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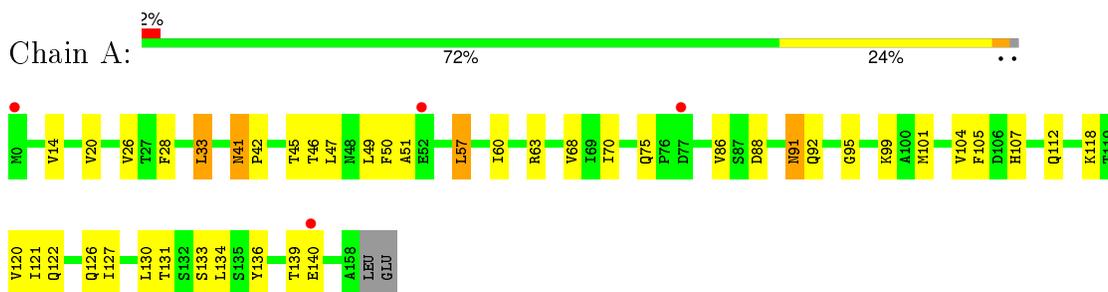
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	B	142	Total 142	O 142	0	0
4	C	135	Total 135	O 135	0	0
4	D	141	Total 141	O 141	0	0

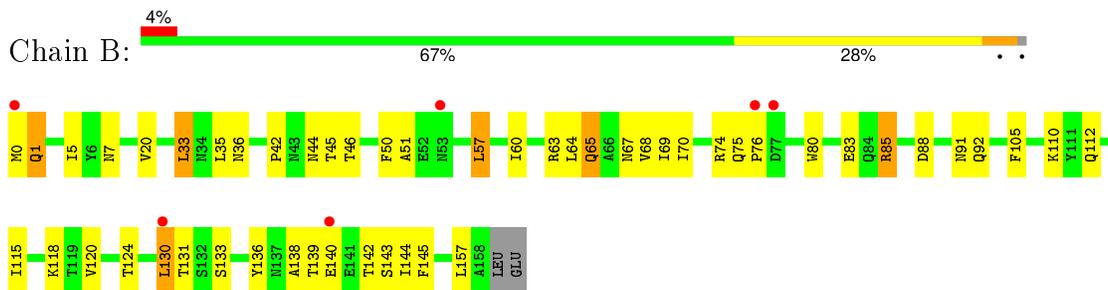
3 Residue-property plots [i](#)

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.

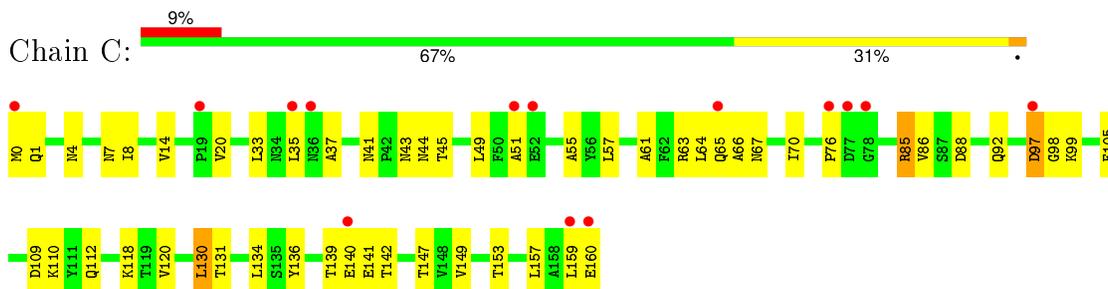
- Molecule 1: Anti-tumor lectin



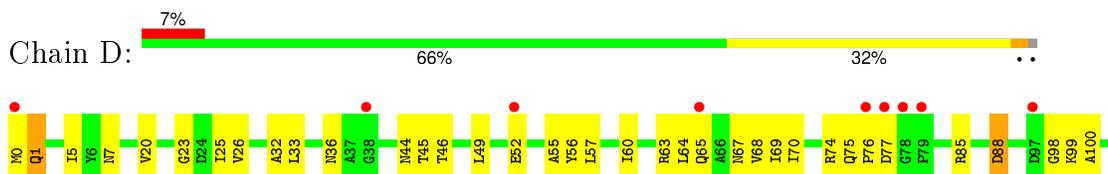
- Molecule 1: Anti-tumor lectin



- Molecule 1: Anti-tumor lectin



- Molecule 1: Anti-tumor lectin





4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	56.82Å 53.24Å 103.40Å 90.00° 95.04° 90.00°	Depositor
Resolution (Å)	20.00 – 2.10 24.09 – 2.09	Depositor EDS
% Data completeness (in resolution range)	93.3 (20.00-2.10) 93.6 (24.09-2.09)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	0.10	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.49 (at 2.08Å)	Xtrriage
Refinement program	CNS	Depositor
R, R_{free}	0.206 , 0.257 0.223 , 0.270	Depositor DCC
R_{free} test set	1691 reflections (4.98%)	DCC
Wilson B-factor (Å ²)	18.8	Xtrriage
Anisotropy	0.630	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 59.7	EDS
Estimated twinning fraction	No twinning to report.	Xtrriage
L-test for twinning ²	$\langle L \rangle = 0.47$, $\langle L^2 \rangle = 0.30$	Xtrriage
Outliers	1 of 34682 reflections (0.003%)	Xtrriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	5556	wwPDB-VP
Average B, all atoms (Å ²)	18.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 60.50 % of the origin peak, indicating pseudo translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo translational symmetry is equal to 1.5075e-05. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

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: NPO, GAL, A2G

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	0.36	0/1223	0.69	0/1670
1	B	0.36	0/1223	0.69	0/1670
1	C	0.34	0/1241	0.65	0/1693
1	D	0.35	0/1231	0.66	0/1681
All	All	0.35	0/4918	0.67	0/6714

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 [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	1202	0	1179	43	0
1	B	1202	0	1179	51	0
1	C	1220	0	1196	50	0
1	D	1210	0	1190	38	0
2	A	25	0	22	0	0
2	B	25	0	22	0	0
2	C	25	0	22	0	0
2	D	25	0	22	0	0
3	A	10	0	4	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	B	10	0	4	0	0
3	C	10	0	4	0	0
3	D	10	0	4	0	0
4	A	164	0	0	7	0
4	B	142	0	0	5	0
4	C	135	0	0	4	0
4	D	141	0	0	6	0
All	All	5556	0	4848	175	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 18.

The worst 5 of 175 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:C:33:LEU:HD11	1:C:35:LEU:HG	1.46	0.97
1:D:139:THR:HG23	1:D:141:GLU:H	1.38	0.89
1:C:44:ASN:ND2	1:C:64:LEU:H	1.72	0.87
1:B:75:GLN:HE21	1:B:76:PRO:HD2	1.41	0.85
1:B:92:GLN:HE22	1:B:118:LYS:NZ	1.74	0.85

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	157/161 (98%)	151 (96%)	6 (4%)	0	100	100
1	B	157/161 (98%)	147 (94%)	10 (6%)	0	100	100
1	C	159/161 (99%)	145 (91%)	13 (8%)	1 (1%)	30	24
1	D	158/161 (98%)	150 (95%)	7 (4%)	1 (1%)	30	24

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
All	All	631/644 (98%)	593 (94%)	36 (6%)	2 (0%)	46	45

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	C	37	ALA
1	D	88	ASP

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	131/133 (98%)	126 (96%)	5 (4%)	40	40
1	B	131/133 (98%)	125 (95%)	6 (5%)	33	31
1	C	133/133 (100%)	129 (97%)	4 (3%)	48	51
1	D	132/133 (99%)	126 (96%)	6 (4%)	34	32
All	All	527/532 (99%)	506 (96%)	21 (4%)	38	38

5 of 21 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	85	ARG
1	C	41	ASN
1	D	57	LEU
1	B	65	GLN
1	D	77	ASP

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 22 such sidechains are listed below:

Mol	Chain	Res	Type
1	B	67	ASN
1	B	92	GLN
1	D	92	GLN

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Mol	Chain	Res	Type
1	B	75	GLN
1	B	91	ASN

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](#)

8 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$
2	GAL	A	240	2	11,11,12	0.34	0	14,15,17	0.83	0
2	A2G	A	241	3,2	14,14,15	2.15	2 (14%)	15,19,21	1.06	2 (13%)
2	GAL	B	240	2	11,11,12	0.32	0	14,15,17	0.85	0
2	A2G	B	241	3,2	14,14,15	2.15	2 (14%)	15,19,21	1.10	2 (13%)
2	GAL	C	240	2	11,11,12	0.35	0	14,15,17	0.85	0
2	A2G	C	241	3,2	14,14,15	2.16	2 (14%)	15,19,21	1.09	2 (13%)
2	GAL	D	240	2	11,11,12	0.35	0	14,15,17	0.75	0
2	A2G	D	241	3,2	14,14,15	2.15	2 (14%)	15,19,21	0.99	1 (6%)

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
2	GAL	A	240	2	-	0/2/19/22	0/1/1/1
2	A2G	A	241	3,2	-	0/6/23/26	0/1/1/1
2	GAL	B	240	2	-	0/2/19/22	0/1/1/1
2	A2G	B	241	3,2	-	0/6/23/26	0/1/1/1
2	GAL	C	240	2	-	0/2/19/22	0/1/1/1
2	A2G	C	241	3,2	-	0/6/23/26	0/1/1/1
2	GAL	D	240	2	-	0/2/19/22	0/1/1/1
2	A2G	D	241	3,2	-	0/6/23/26	0/1/1/1

The worst 5 of 8 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	241	A2G	C8-C7	-5.54	1.39	1.50
2	A	241	A2G	C8-C7	-5.53	1.39	1.50
2	B	241	A2G	C8-C7	-5.51	1.39	1.50
2	D	241	A2G	C8-C7	-5.50	1.39	1.50
2	A	241	A2G	O7-C7	5.68	1.36	1.23

The worst 5 of 7 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	241	A2G	C4-C3-C2	-2.43	107.46	111.23
2	B	241	A2G	C4-C3-C2	-2.41	107.48	111.23
2	C	241	A2G	C4-C3-C2	-2.28	107.69	111.23
2	C	241	A2G	C6-C5-C4	-2.16	107.68	113.02
2	A	241	A2G	C8-C7-N2	2.01	119.95	116.11

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.6 Ligand geometry [i](#)

4 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
3	NPO	A	242	2	8,10,10	3.56	1 (12%)	11,13,13	0.49	0
3	NPO	B	242	2	8,10,10	3.55	1 (12%)	11,13,13	0.37	0
3	NPO	C	242	2	8,10,10	3.54	1 (12%)	11,13,13	0.41	0
3	NPO	D	242	2	8,10,10	3.55	1 (12%)	11,13,13	0.52	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	NPO	A	242	2	-	0/4/4/4	0/1/1/1
3	NPO	B	242	2	-	0/4/4/4	0/1/1/1
3	NPO	C	242	2	-	0/4/4/4	0/1/1/1
3	NPO	D	242	2	-	0/4/4/4	0/1/1/1

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	242	NPO	O3-N1	9.97	1.42	1.22
3	B	242	NPO	O3-N1	9.99	1.42	1.22
3	D	242	NPO	O3-N1	10.00	1.42	1.22
3	A	242	NPO	O3-N1	10.03	1.42	1.22

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers

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 [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	159/161 (98%)	0.29	4 (2%) 61 67	7, 14, 25, 38	0
1	B	159/161 (98%)	0.36	6 (3%) 44 53	8, 15, 26, 39	0
1	C	161/161 (100%)	0.45	14 (8%) 13 17	10, 18, 30, 43	0
1	D	160/161 (99%)	0.51	11 (6%) 20 27	10, 18, 29, 39	0
All	All	639/644 (99%)	0.40	35 (5%) 29 37	7, 17, 29, 43	0

The worst 5 of 35 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	D	0	MET	7.8
1	C	0	MET	6.1
1	B	0	MET	6.0
1	A	0	MET	5.6
1	B	77	ASP	5.3

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](#)

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
2	GAL	B	240	11/12	0.94	0.12	-0.38	5,13,14,15	0
2	GAL	D	240	11/12	0.93	0.12	-0.50	11,15,17,17	0
2	GAL	A	240	11/12	0.95	0.12	-0.61	9,10,12,13	0
2	A2G	A	241	14/15	0.92	0.12	-0.62	13,16,18,18	0
2	A2G	B	241	14/15	0.90	0.12	-0.65	10,15,17,17	0
2	GAL	C	240	11/12	0.93	0.10	-0.66	15,17,19,20	0
2	A2G	D	241	14/15	0.93	0.12	-0.92	11,16,17,17	0
2	A2G	C	241	14/15	0.92	0.11	-1.13	14,17,18,21	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
3	NPO	D	242	10/10	0.76	0.33	-	21,27,31,32	0
3	NPO	C	242	10/10	0.88	0.24	-	21,26,27,29	0
3	NPO	B	242	10/10	0.78	0.44	-	23,32,38,39	0
3	NPO	A	242	10/10	0.75	0.32	-	23,32,39,39	0

6.5 Other polymers [i](#)

There are no such residues in this entry.