

wwPDB X-ray Structure Validation Summary Report (i)

Jan 5, 2024 – 01:41 am GMT

PDB ID : 5LQQ

Title: Structure of Autotaxin (ENPP2) with LM350

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Deposited on : 2016-08-17

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 (i) 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 (1)) were used in the production of this report:

MolProbity: 4.02b-467

Mogul : 1.8.4, CSD as541be (2020)

Xtriage (Phenix) : 1.13

EDS : 2.36

buster-report : 1.1.7 (2018)

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)

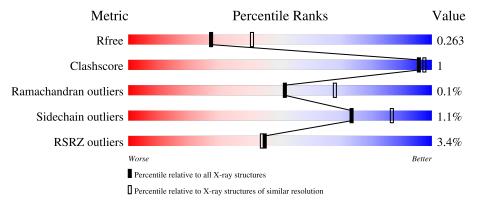
Validation Pipeline (wwPDB-VP) : 2.36

1 Overall quality at a glance (i)

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	Similar resolution
Metric	$(\# ext{Entries})$	$(\# ext{Entries}, ext{ resolution range}(ext{Å}))$
R_{free}	130704	3907 (2.40-2.40)
Clashscore	141614	4398 (2.40-2.40)
Ramachandran outliers	138981	4318 (2.40-2.40)
Sidechain outliers	138945	4319 (2.40-2.40)
RSRZ outliers	127900	3811 (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 <=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	827	90% • 6%						
2	В	8	25%	62%	12%				

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:



Mo	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
2	MAN	В	4	X	-	-	-



2 Entry composition (i)

There are 8 unique types of molecules in this entry. The entry contains 6466 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.

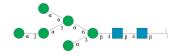
• Molecule 1 is a protein called Ectonucleotide pyrophosphatase/phosphodiesterase family member 2.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace	
1	A	775	Total 6252	C 3965	N 1078	O 1161	S 48	0	0	0

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	410	ALA	ASN	engineered mutation	UNP Q64610
A	581	PHE	LEU	cloning artifact	UNP Q64610
A	591	THR	ARG	cloning artifact	UNP Q64610
A	806	ALA	ASN	engineered mutation	UNP Q64610

• Molecule 2 is an oligosaccharide called alpha-D-mannopyranose-(1-2)-alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)]alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose.



Mol	Chain	Residues	Atoms		ZeroOcc	AltConf	Trace		
2	В	8	Total 94	C 52	N 2	O 40	0	0	0

• Molecule 3 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	2	Total Zn 2 2	0	0

• Molecule 4 is CALCIUM ION (three-letter code: CA) (formula: Ca).

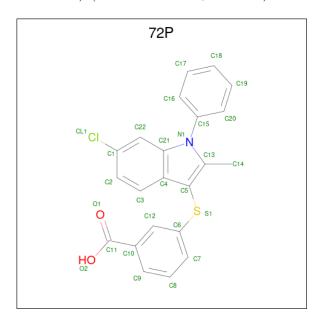


Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	1	Total Ca 1 1	0	0

• Molecule 5 is IODIDE ION (three-letter code: IOD) (formula: I).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	10	Total I 10 10	0	0

• Molecule 6 is 3-(6-chloranyl-2-methyl-1-phenyl-indol-3-yl) sulfanylbenzoic acid (three-letter code: 72P) (formula: $\rm C_{22}H_{16}ClNO_2S)$.



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf		
6	A	1	Total 27	C 22	Cl 1	N 1	O 2	S 1	0	0

• Molecule 7 is SODIUM ION (three-letter code: NA) (formula: Na).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	A	1	Total Na 1 1	0	0

• Molecule 8 is water.

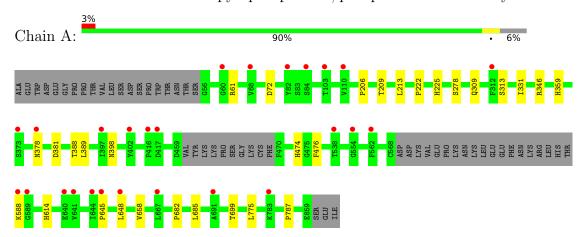
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
8	A	79	Total O 79 79	0	0



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: Ectonucleotide pyrophosphatase/phosphodiesterase family member 2



 $\bullet \ \, Molecule \ 2: \ alpha-D-mannopyranose-(1-2)-alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-6)] \\ alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)] \\ beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glu$





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants	62.66Å 89.07Å 77.51Å	Donositor
a, b, c, α , β , γ	90.00° 102.88° 90.00°	Depositor
Resolution (Å)	46.00 - 2.40	Depositor
Resolution (A)	46.00 - 2.40	EDS
% Data completeness	99.5 (46.00-2.40)	Depositor
(in resolution range)	99.6 (46.00-2.40)	EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	2.27 (at 2.39Å)	Xtriage
Refinement program	REFMAC refmac_5.8.0155	Depositor
D D.	0.217 , 0.262	Depositor
R, R_{free}	0.224 , 0.263	DCC
R_{free} test set	1569 reflections (4.84%)	wwPDB-VP
Wilson B-factor (Å ²)	40.0	Xtriage
Anisotropy	1.074	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.34, 37.8	EDS
L-test for twinning ²	$ < L > = 0.49, < L^2> = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	6466	wwPDB-VP
Average B, all atoms (Å ²)	62.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 4.74% of the height of the origin peak. No significant pseudotranslation is detected.

²Theoretical values of <|L|>, $<L^2>$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.



¹Intensities estimated from amplitudes.

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: CA, NAG, ZN, 72P, BMA, MAN, NA, IOD

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	
MIOI	Chain	RMSZ	# Z > 5	RMSZ	$Z \mid \# Z > 5$	
1	A	0.38	0/6429	0.60	0/8720	

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	6252	0	6010	13	0
2	В	94	0	79	1	0
3	A	2	0	0	0	0
4	A	1	0	0	0	0
5	A	10	0	0	1	0
6	A	27	0	0	0	0
7	A	1	0	0	0	0
8	A	79	0	0	0	0
All	All	6466	0	6089	14	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 1.

The worst 5 of 14 close contacts within the same asymmetric unit are listed below, sorted by their



clash magnitude.

Atom-1	Atom-2	$\begin{array}{c} {\rm Interatomic} \\ {\rm distance} \ ({\rm \AA}) \end{array}$	Clash overlap (Å)
2:B:2:NAG:H83	2:B:4:MAN:O4	2.11	0.50
1:A:388:THR:HG22	1:A:476:PHE:CZ	2.48	0.48
1:A:209:THR:HG22	1:A:213:LEU:HD12	1.97	0.47
1:A:775:LEU:HD23	1:A:787:PRO:HG2	1.97	0.47
1:A:222:PRO:HA	1:A:225:HIS:CE1	2.50	0.46

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	769/827 (93%)	747 (97%)	21 (3%)	1 (0%)	51 68	

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	398	ASN

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	Analysed Rotameric Outliers		Percentiles		
1	A	700/749 (94%)	692 (99%)	8 (1%)	73 87		

5 of 8 residues with a non-rotameric sidechain are listed below:



Mol	Chain	Res	Type
1	A	614	HIS
1	A	588	LYS
1	A	378	ASN
1	A	346	ARG
1	A	381	ASP

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	134	GLN
1	A	309	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)

8 monosaccharides 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	Вс	ond leng	ths	В	ond ang	les
WIOI	Type	Chain	nes	LIIIK	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	NAG	В	1	1,2	14,14,15	0.31	0	17,19,21	1.24	2 (11%)
2	NAG	В	2	2	14,14,15	0.39	0	17,19,21	0.73	0
2	BMA	В	3	2	11,11,12	0.35	0	15,15,17	1.08	0
2	MAN	В	4	2	11,11,12	0.67	0	15,15,17	1.09	1 (6%)
2	MAN	В	5	2	11,11,12	0.35	0	15,15,17	1.00	1 (6%)
2	MAN	В	6	2	11,11,12	0.33	0	15,15,17	0.78	0
2	MAN	В	7	2	11,11,12	0.48	0	15,15,17	1.16	3 (20%)



Mol	Type	Chain	Res	Link	Bo	ond leng	$ ag{ths}$	В	ond ang	les
IVIOI	туре	Chain	rtes	Lilik	Counts	RMSZ	# Z > 2	Counts $\mid \text{RMSZ} \mid \# Z > 2$		
2	MAN	В	8	2	11,11,12	0.56	0	15,15,17	1.83	4 (26%)

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	NAG	В	1	1,2	-	0/6/23/26	0/1/1/1
2	NAG	В	2	2	-	0/6/23/26	0/1/1/1
2	BMA	В	3	2	-	1/2/19/22	0/1/1/1
2	MAN	В	4	2	1/1/4/5	0/2/19/22	0/1/1/1
2	MAN	В	5	2	-	2/2/19/22	0/1/1/1
2	MAN	В	6	2	-	0/2/19/22	0/1/1/1
2	MAN	В	7	2	-	0/2/19/22	0/1/1/1
2	MAN	В	8	2	-	2/2/19/22	0/1/1/1

There are no bond length outliers.

The worst 5 of 11 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
2	В	8	MAN	C1-C2-C3	4.48	115.17	109.67
2	В	8	MAN	C2-C3-C4	3.32	116.64	110.89
2	В	1	NAG	O5-C1-C2	-3.25	106.16	111.29
2	В	5	MAN	C1-O5-C5	2.69	115.84	112.19
2	В	8	MAN	O5-C5-C6	2.66	111.37	107.20

All (1) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
2	В	4	MAN	C1

All (5) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	В	8	MAN	O5-C5-C6-O6
2	В	5	MAN	C4-C5-C6-O6
2	В	5	MAN	O5-C5-C6-O6
2	В	3	BMA	C4-C5-C6-O6
2	В	8	MAN	C4-C5-C6-O6



There are no ring outliers.

2 monomers are involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	В	4	MAN	1	0
2	В	2	NAG	1	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for oligosaccharide.

5.6 Ligand geometry (i)

Of 15 ligands modelled in this entry, 14 are monoatomic - leaving 1 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	Bo	ond leng	ths	Bond angles		
				rtes	Lilik	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
	6	72P	A	922	-	29,30,30	1.06	2 (6%)	36,43,43	1.03	3 (8%)

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.

\mathbf{N}	Iol	Type	Chain	Res	Link	Chirals	Torsions	Rings
	6	72P	A	922	-	=	0/12/12/12	0/4/4/4

All (2) bond length outliers are listed below:

M	[ol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
	6	A	922	72P	O1-C11	2.97	1.31	1.22
	6	A	922	72P	O2-C11	-2.56	1.22	1.30

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
6	A	922	72P	O2-C11-C10	2.82	122.16	114.85
6	A	922	72P	C5-C4-C21	-2.76	106.70	114.39
6	A	922	72P	O1-C11-C10	-2.37	115.13	121.45

There are no chirality outliers.

There are no torsion outliers.

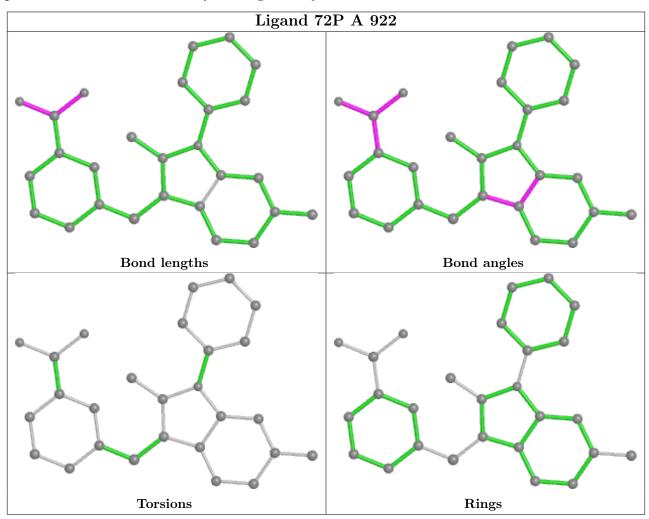
There are no ring outliers.

No monomer is involved in short contacts.

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less then 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the



average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.



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, 95^{th} 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 $>$	$\#\mathrm{RSRZ}{>}2$		$OWAB(A^2)$	Q<0.9
1	A	775/827 (93%)	0.34	26 (3%)	45 44	39, 61, 88, 108	0

The worst 5 of 26 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	82	TYR	4.9
1	A	554	GLY	3.5
1	A	589	GLY	3.5
1	A	640	GLU	3.4
1	A	416	PRO	3.3

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. The B-factors column lists the minimum, median, 95^{th} 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	$\operatorname{B-factors}(\mathring{\mathrm{A}}^2)$	Q<0.9
2	MAN	В	7	11/12	0.64	0.27	64,68,71,71	0
2	MAN	В	8	11/12	0.85	0.15	66,67,70,70	0
2	BMA	В	3	11/12	0.90	0.18	59,63,65,65	0
2	MAN	В	4	11/12	0.93	0.13	63,65,66,68	0
2	MAN	В	5	11/12	0.94	0.11	65,66,69,71	0
2	MAN	В	6	11/12	0.95	0.11	62,64,66,67	0
2	NAG	В	1	14/15	0.97	0.20	43,44,46,47	0

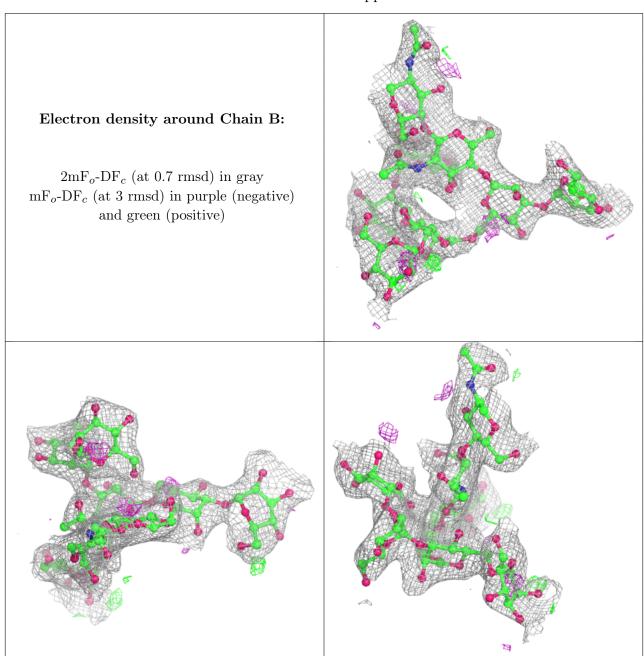
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q<0.9
2	NAG	В	2	14/15	0.97	0.16	49,50,53,56	0

The following is a graphical depiction of the model fit to experimental electron density for oligosaccharide. Each fit is shown from different orientation to approximate a three-dimensional view.



6.4 Ligands (i)

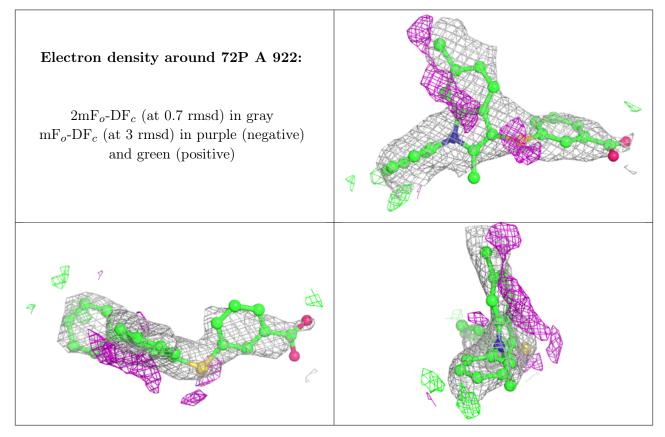
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum,



median, 95^{th} 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	$\operatorname{B-factors}(\mathring{\mathbf{A}}^2)$	Q<0.9
6	72P	A	922	27/27	0.81	0.35	83,86,97,97	0
7	NA	A	923	1/1	0.83	0.24	68,68,68,68	0
5	IOD	A	917	1/1	0.88	0.14	129,129,129,129	1
5	IOD	A	921	1/1	0.90	0.10	117,117,117,117	1
5	IOD	A	919	1/1	0.95	0.21	159,159,159,159	1
4	CA	A	911	1/1	0.97	0.18	47,47,47,47	0
5	IOD	A	915	1/1	0.98	0.14	112,112,112,112	1
3	ZN	A	909	1/1	0.98	0.16	66,66,66,66	0
5	IOD	A	918	1/1	0.99	0.06	86,86,86,86	1
5	IOD	A	914	1/1	0.99	0.06	91,91,91,91	1
3	ZN	A	910	1/1	0.99	0.03	95,95,95,95	0
5	IOD	A	916	1/1	0.99	0.07	99,99,99,99	1
5	IOD	A	913	1/1	0.99	0.09	83,83,83,83	1
5	IOD	A	920	1/1	1.00	0.09	88,88,88,88	0
5	IOD	A	912	1/1	1.00	0.17	59,59,59,59	0

The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.





6.5 Other polymers (i)

There are no such residues in this entry.

