

# Full wwPDB X-ray Structure Validation Report (i)

#### Mar 18, 2025 - 06:07 pm GMT

PDB ID	:	80XD
Title	:	Structure of the human LYVE-1 (lymphatic vessel endothelial receptor-1)
		hyaluronan binding domain bound with decasaccharide hyaluronan.
Authors	:	Ni, T.; Banerji, N.; Jackson, D.J.; Gilbert, R.J.C.
Deposited on	:	2023-05-01
Resolution	:	1.32  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 (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:

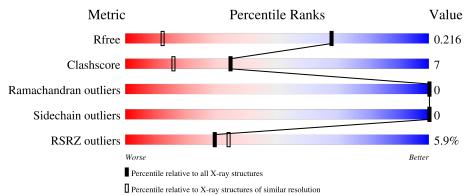
MolProbity	:	4.02b-467
Mogul	:	1.8.4, CSD as541be (2020)
Xtriage (Phenix)	:	1.13
$\mathrm{EDS}$	:	3.0
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4	:	9.0.003 (Gargrove)
Density-Fitness	:	1.0.11
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.41

# 1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:  $X\text{-}RAY\;DIFFRACTION$ 

The reported resolution of this entry is 1.32 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	$egin{array}{c} { m Whole \ archive} \ (\#{ m Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries,\ resolution\ range}({ m \AA}))$
$R_{free}$	164625	2202(1.34-1.30)
Clashscore	180529	2378 (1.34-1.30)
Ramachandran outliers	177936	2325 (1.34-1.30)
Sidechain outliers	177891	2325 (1.34-1.30)
RSRZ outliers	164620	2199 (1.34-1.30)

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	А	146	5% 71%	10%	•	18%
2	С	6	100%			



#### 80XD

## 2 Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 1125 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 Lymphatic vessel endothelial hyaluronic acid receptor 1.

Mol	Chain	Residues		At	oms			ZeroOcc	AltConf	Trace
1	А	119	Total 914	${ m C} 579$	N 156	O 172	${ m S} 7$	0	1	0

There are 2 discrepancies between the modelled and reference sequences:

C	hain	Residue	Modelled	Actual	Comment	Reference
	А	145	HIS	-	expression tag	UNP Q9Y5Y7
	А	146	HIS	-	expression tag	UNP Q9Y5Y7

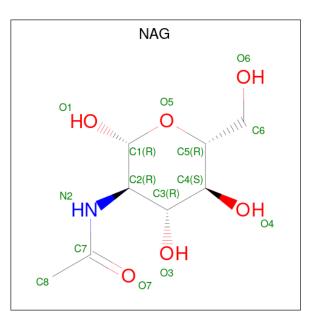
• Molecule 2 is an oligosaccharide called 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-bet a-D-glucopyranuronic acid-(1-3)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-beta-D-glucopy ranuronic acid-(1-3)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-beta-D-glucopy ranuronic acid.



Mol	Chain	Residues	I	Aton	ns		ZeroOcc	AltConf	Trace
2	С	6	Total 78	C 42	N 3	O 33	0	0	0

• Molecule 3 is 2-acetamido-2-deoxy-beta-D-glucopyranose (three-letter code: NAG) (formula:  $C_8H_{15}NO_6$ ) (labeled as "Ligand of Interest" by depositor).





Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	А	1	Total         C         N         O           14         8         1         5	0	0
3	А	1	Total         C         N         O           14         8         1         5	0	0
3	А	1	Total         C         N         O           14         8         1         5	0	0

• Molecule 4 is water.

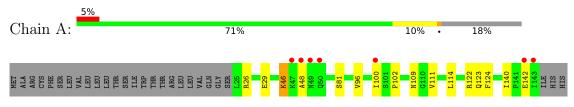
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	А	91	Total         O           91         91	0	0



## 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: Lymphatic vessel endothelial hyaluronic acid receptor 1



 $\label{eq:2.2} \bullet \mbox{Molecule 2: 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-beta-D-glucopyranuronic acid-(1-3)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-beta-D-glucopyranuronic acid-(1-3)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-beta-D-glucopyranuronic acid (1-3)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-beta-D-glucopyranuronic acid (1-3)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-beta-D-glucopyranuronic acid-(1-3)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-beta-D-glucopyranuronic acid-(1-3)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-beta-D-glucopyranuronic acid-(1-3)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-beta-D-glucopyranuronic acid$ 

Chain C:

100%

BDP1 NAG2 BDP3 NAG4 BDP5 NAG6



## 4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
$\begin{array}{c} \text{Cell constants} \\ \text{a, b, c, } \alpha, \beta, \gamma \end{array}$	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	Depositor
Resolution (Å)	37.83 - 1.32 37.83 - 1.32	Depositor EDS
% Data completeness (in resolution range)	99.4 (37.83-1.32) 99.4 (37.83-1.32)	Depositor EDS
(in resolution range) R <sub>merge</sub>	(Not available)	Depositor
R <sub>sym</sub>	(Not available)	Depositor
$< I/\sigma(I) > 1$	1.64 (at 1.32Å)	Xtriage
Refinement program	PHENIX 1.21rc1_4899	Depositor
$R, R_{free}$	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	Depositor DCC
$R_{free}$ test set	1558 reflections $(5.09%)$	wwPDB-VP
Wilson B-factor $(Å^2)$	16.2	Xtriage
Anisotropy	0.699	Xtriage
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	0.39, $42.5$	EDS
L-test for twinning <sup>2</sup>	$<  L  > = 0.48, < L^2 > = 0.31$	Xtriage
Estimated twinning fraction	0.024 for -h,l,k	Xtriage
$F_o, F_c$ correlation	0.97	EDS
Total number of atoms	1125	wwPDB-VP
Average B, all atoms $(Å^2)$	25.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 10.92% of the height of the origin peak. No significant pseudotranslation is detected.

<sup>&</sup>lt;sup>2</sup>Theoretical 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.



<sup>&</sup>lt;sup>1</sup>Intensities 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: BDP, 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	Chain Bond lengths			ond angles
IVI01	Chain	RMSZ	# Z  > 5	RMSZ	# Z  > 5
1	А	0.38	0/933	0.67	1/1263~(0.1%)

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	$Observed(^{o})$	$Ideal(^{o})$
1	А	46	LYS	CD-CE-NZ	-5.01	100.18	111.70

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	А	914	0	918	12	3
2	С	78	0	55	1	0
3	А	42	0	39	2	0
4	А	91	0	0	4	5
All	All	1125	0	1012	15	5

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 7.

All (15) close contacts within the same asymmetric unit are listed below, sorted by their clash



Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:142:GLU:OE2	4:A:301:HOH:O	1.69	1.08
4:A:381:HOH:O	2:C:6:NAG:O7	1.94	0.85
1:A:123:GLN:OE1	4:A:302:HOH:O	1.95	0.83
1:A:26:ARG:O	1:A:29:GLU:HG2	1.96	0.65
3:A:201:NAG:O7	3:A:201:NAG:O3	2.13	0.62
1:A:122:ARG:HG2	1:A:124:PHE:CE2	2.37	0.58
1:A:140:ILE:HB	4:A:301:HOH:O	2.07	0.55
1:A:81:SER:C	1:A:100:ILE:HD11	2.28	0.53
1:A:81:SER:CA	1:A:100:ILE:HD11	2.45	0.47
3:A:201:NAG:HO3	3:A:201:NAG:C7	2.20	0.47
1:A:81:SER:HA	1:A:100:ILE:HD11	1.97	0.47
1:A:46:LYS:NZ	1:A:48:ALA:HB3	2.30	0.46
1:A:96:VAL:HA	1:A:114:LEU:O	2.21	0.41
1:A:46:LYS:HZ2	1:A:48:ALA:HB3	1.86	0.40
1:A:102:PRO:HB3	1:A:109:ASN:O	2.21	0.40

magnitude.

All (5) 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)
4:A:302:HOH:O	4:A:357:HOH:O[4_445]	1.99	0.21
1:A:123:GLN:OE1	4:A:315:HOH:O[4_445]	2.11	0.09
1:A:123:GLN:OE1	4:A:357:HOH:O[4_445]	2.11	0.09
4:A:302:HOH:O	4:A:315:HOH:O[4_445]	2.11	0.09
1:A:111:VAL:O	4:A:302:HOH:O[4_545]	2.15	0.05

### 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	А	118/146 (81%)	115 (98%)	3~(2%)	0	100 100



There are no Ramachandran outliers to report.

#### 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		
1	А	102/126~(81%)	102 (100%)	0	100 100	

There are no protein residues with a non-rotameric sidechain to report.

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

#### 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)

6 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	Turne	Chain	Chain	Dec Lini		Bo	ond leng	$\mathbf{ths}$	В	ond ang	les
IVIOI	Type	Chain	$\operatorname{Res}$	Link	Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z >2	
2	BDP	С	1	2	12,12,13	2.16	5 (41%)	14,17,19	1.78	5 (35%)	
2	NAG	С	2	2	14,14,15	0.45	0	17,19,21	0.68	1 (5%)	



Mol	ol Type Chain Res Link		Link	Bo	ond leng	$\operatorname{ths}$	Bond angles			
10101	Type	Unam	nes	LIIIK	Counts	RMSZ	# Z >2	Counts	RMSZ	# Z >2
2	BDP	С	3	2	12,12,13	1.88	3 (25%)	14,17,19	0.84	0
2	NAG	С	4	2	14,14,15	0.83	1 (7%)	17,19,21	0.69	0
2	BDP	С	5	2	12,12,13	2.10	3 (25%)	14,17,19	1.00	2 (14%)
2	NAG	С	6	2	14,14,15	0.45	0	17,19,21	0.40	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
2	BDP	С	1	2	-	0/4/21/24	0/1/1/1
2	NAG	С	2	2	-	0/6/23/26	0/1/1/1
2	BDP	С	3	2	-	0/4/21/24	0/1/1/1
2	NAG	С	4	2	-	0/6/23/26	0/1/1/1
2	BDP	С	5	2	-	0/4/21/24	0/1/1/1
2	NAG	С	6	2	-	0/6/23/26	0/1/1/1

All (12) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\operatorname{Observed}(\operatorname{\AA})$	Ideal(Å)
2	С	5	BDP	C2-C3	-4.74	1.45	1.52
2	С	1	BDP	C2-C3	-4.12	1.46	1.52
2	С	3	BDP	C2-C3	-4.02	1.46	1.52
2	С	5	BDP	O3-C3	3.72	1.51	1.43
2	С	1	BDP	O3-C3	3.41	1.51	1.43
2	С	3	BDP	O3-C3	3.15	1.50	1.43
2	С	1	BDP	C5-C6	-2.68	1.47	1.53
2	С	1	BDP	O5-C1	2.58	1.47	1.43
2	С	4	NAG	O5-C1	-2.52	1.39	1.43
2	С	3	BDP	C5-C6	-2.45	1.47	1.53
2	С	5	BDP	C5-C6	-2.13	1.48	1.53
2	$\mathbf{C}$	1	BDP	O4-C4	-2.07	1.38	1.43

All (8) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^{o})$	$Ideal(^{o})$
2	С	1	BDP	C1-C2-C3	3.14	113.53	109.67
2	С	1	BDP	O4-C4-C5	3.09	116.68	109.74
2	С	1	BDP	C2-C3-C4	2.88	115.88	110.89
2	С	1	BDP	O3-C3-C2	-2.35	105.49	109.99

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Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
2	С	2	NAG	O3-C3-C2	-2.08	105.17	109.47
2	С	5	BDP	O4-C4-C3	-2.06	105.58	110.35
2	С	1	BDP	O4-C4-C3	2.06	115.11	110.35
2	С	5	BDP	O6B-C6-O6A	-2.01	119.52	124.09

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There are no chirality outliers.

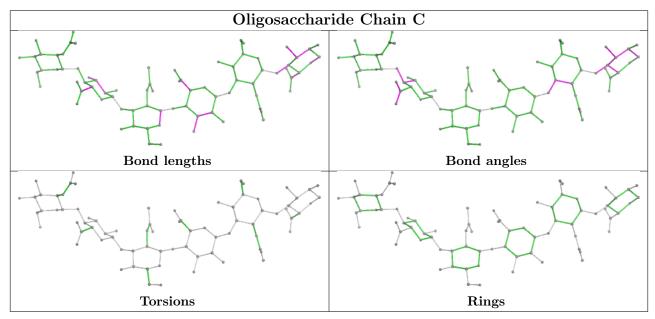
There are no torsion outliers.

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	С	6	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)

3 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



Mol	Turne	Chain	Chain	Chain	Chain	Chain	Chain	Res	Link	Bo	Bond lengths			Bond angles		
	Mol Type Cha	Unam	in nes		Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z >2						
3	NAG	A	201	1	14,14,15	0.53	0	17,19,21	0.43	0						
3	NAG	А	202	1	14,14,15	0.26	0	17,19,21	0.51	0						
3	NAG	А	203	1	14,14,15	0.45	0	17,19,21	0.56	0						

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).

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	NAG	А	201	1	-	2/6/23/26	0/1/1/1
3	NAG	А	202	1	-	2/6/23/26	0/1/1/1
3	NAG	А	203	1	-	0/6/23/26	0/1/1/1

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (4) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	А	201	NAG	C1-C2-N2-C7
3	А	201	NAG	C3-C2-N2-C7
3	А	202	NAG	C4-C5-C6-O6
3	А	202	NAG	O5-C5-C6-O6

There are no ring outliers.

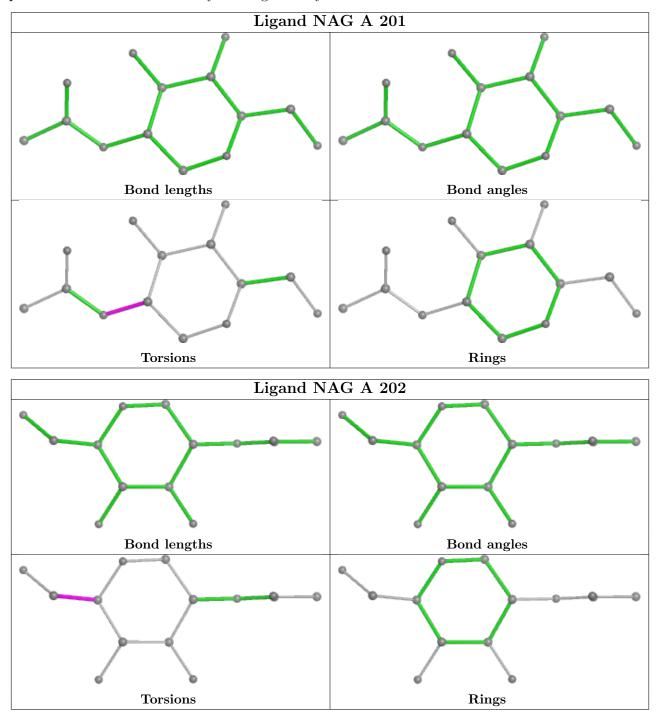
1 monomer is involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	А	201	NAG	2	0

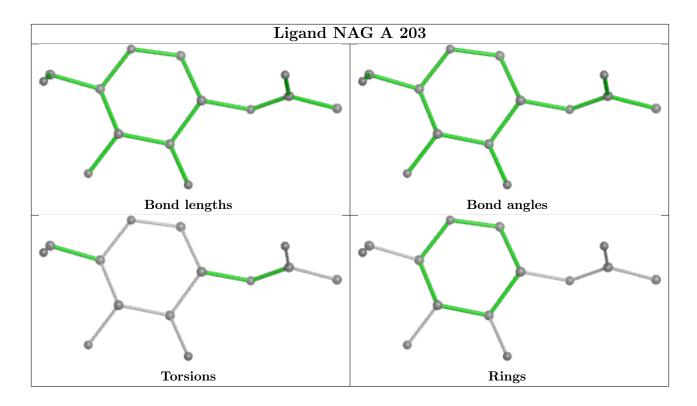
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. 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 $>$	#RSRZ>2		$OWAB(Å^2)$	Q<0.9	
1	А	119/146~(81%)	0.35	7(5%)	29	34	12, 20, 42, 52	1 (0%)

All (7) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	А	143	ILE	3.6
1	А	142	GLU	3.6
1	А	48	ALA	3.1
1	А	49	ASN	2.9
1	А	50	GLN	2.9
1	А	47	LYS	2.8
1	А	100	ILE	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)

SUGAR-RSR INFOmissingINFO

## 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	$\mathbf{B} ext{-factors}(\mathbf{A}^2)$	Q<0.9
3	NAG	А	201	14/15	0.31	0.22	$52,\!61,\!63,\!65$	0

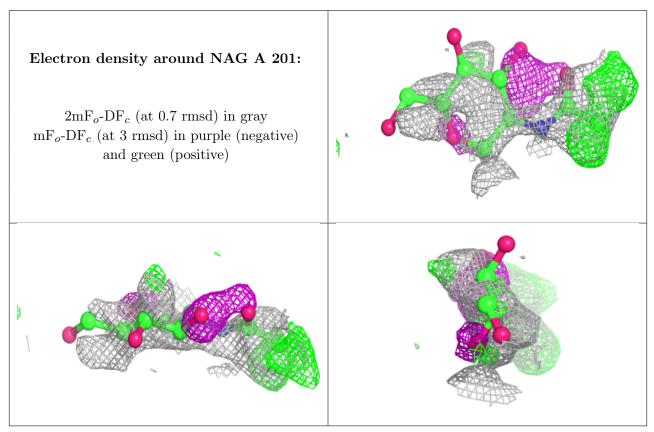
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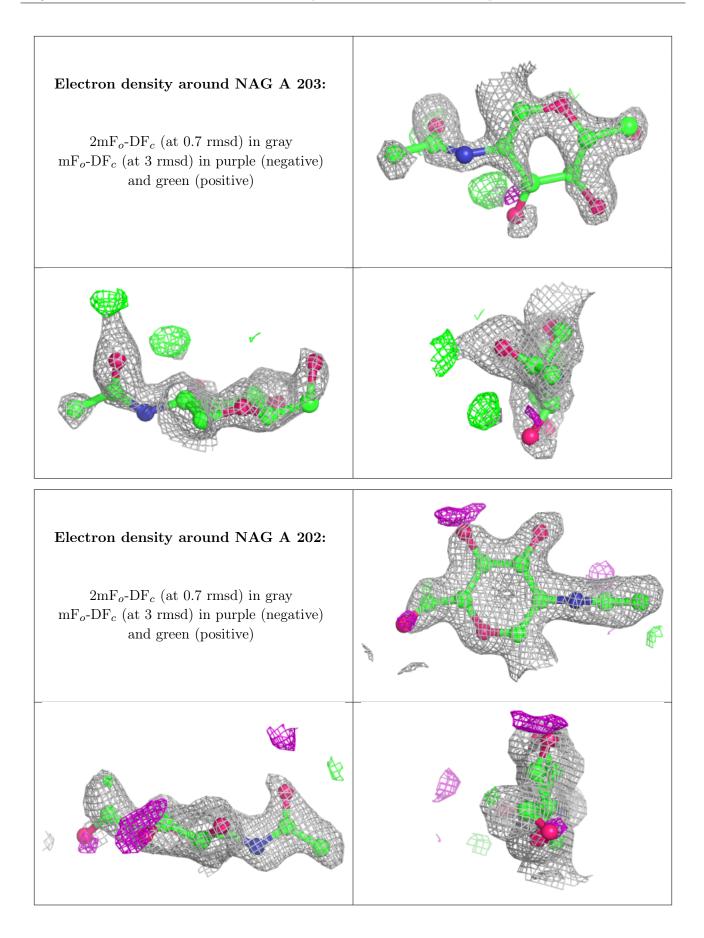
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	$B-factors(Å^2)$	Q<0.9
3	NAG	А	203	14/15	0.74	0.13	$45,\!52,\!56,\!56$	0
3	NAG	А	202	14/15	0.76	0.13	33,41,46,48	0

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.

