

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

Sep 8, 2022 – 10:16 am BST

PDB ID : 7QE3

Title : Se-M variant of B-trefoil lectin from Salpingoeca rosetta in complex with

GalNAc

Authors : Notova, S.; Varrot, A.

Deposited on : 2021-12-01

Resolution : 2.20 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 : 2.30

buster-report : 1.1.7 (2018)

Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)

 $Refmac \quad : \quad 5.8.0267$ 

CCP4 : 7.1.010 (Gargrove)

Ideal geometry (proteins) : Engh & Huber (2001) Ideal geometry (DNA, RNA) : Parkinson et al. (1996)

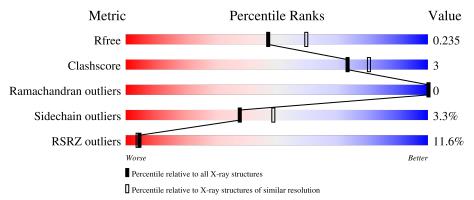
Validation Pipeline (wwPDB-VP) : 2.30

# 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 2.20 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	$(\# \mathrm{Entries})$	$(\#  ext{Entries},  ext{ resolution range}( ext{Å}))$
$R_{free}$	130704	4898 (2.20-2.20)
Clashscore	141614	5594 (2.20-2.20)
Ramachandran outliers	138981	5503 (2.20-2.20)
Sidechain outliers	138945	5504 (2.20-2.20)
RSRZ outliers	127900	4800 (2.20-2.20)

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	AAA	350	83%	9%	• 7%
1	BBB	350	83%	9%	8%



# 2 Entry composition (i)

There are 7 unique types of molecules in this entry. The entry contains 5574 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 Sarol-1.

$\mathbf{Mol}$	Chain	Residues		$\mathbf{Atoms}$			ZeroOcc	AltConf	Trace		
1	AAA	325	Total 2521	C 1584	N 447	O 482			0	2	0
1	BBB	322	Total 2511	C 1577	N 443		S 3	Se 4	0	4	0

There are 42 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
AAA	-20	MSE	-	initiating methionine	UNP F2UID9
AAA	-19	GLY	_	expression tag	UNP F2UID9
AAA	-18	SER	-	expression tag	UNP F2UID9
AAA	-17	SER	-	expression tag	UNP F2UID9
AAA	-16	HIS	-	expression tag	UNP F2UID9
AAA	-15	HIS	-	expression tag	UNP F2UID9
AAA	-14	HIS	-	expression tag	UNP F2UID9
AAA	-13	HIS	-	expression tag	UNP F2UID9
AAA	-12	HIS	-	expression tag	UNP F2UID9
AAA	-11	HIS	-	expression tag	UNP F2UID9
AAA	-10	SER	-	expression tag	UNP F2UID9
AAA	-9	SER	-	expression tag	UNP F2UID9
AAA	-8	GLY	-	expression tag	UNP F2UID9
AAA	-7	GLU	-	expression tag	UNP F2UID9
AAA	-6	ASN	-	expression tag	UNP F2UID9
AAA	-5	LEU	-	expression tag	UNP F2UID9
AAA	-4	TYR	-	expression tag	UNP F2UID9
AAA	-3	PHE	-	expression tag	UNP F2UID9
AAA	-2	GLN	-	expression tag	UNP F2UID9
AAA	-1	GLY	-	expression tag	UNP F2UID9
AAA	0	HIS	-	expression tag	UNP F2UID9
BBB	-20	MSE	-	initiating methionine	UNP F2UID9
BBB	-19	GLY	-	expression tag	UNP F2UID9
BBB	-18	SER	-	expression tag	UNP F2UID9
BBB	-17	SER	-	expression tag	UNP F2UID9

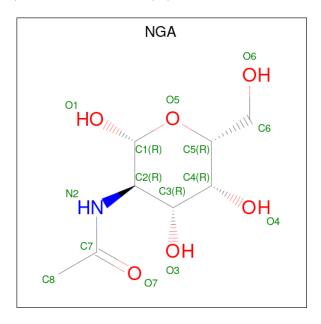
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Chain	Residue	Modelled	Actual	Comment	Reference
BBB	-16	HIS	-	expression tag	UNP F2UID9
BBB	-15	HIS	-	expression tag	UNP F2UID9
BBB	-14	HIS	-	expression tag	UNP F2UID9
BBB	-13	HIS	-	expression tag	UNP F2UID9
BBB	-12	HIS	-	expression tag	UNP F2UID9
BBB	-11	HIS	1	expression tag	UNP F2UID9
BBB	-10	SER	-	expression tag	UNP F2UID9
BBB	-9	SER	-	expression tag	UNP F2UID9
BBB	-8	GLY	-	expression tag	UNP F2UID9
BBB	-7	GLU	-	expression tag	UNP F2UID9
BBB	-6	ASN	-	expression tag	UNP F2UID9
BBB	-5	LEU	-	expression tag	UNP F2UID9
BBB	-4	TYR	-	expression tag	UNP F2UID9
BBB	-3	PHE	-	expression tag	UNP F2UID9
BBB	-2	GLN	-	expression tag	UNP F2UID9
BBB	-1	GLY	-	expression tag	UNP F2UID9
BBB	0	HIS	-	expression tag	UNP F2UID9

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



Mol	Chain	Residues	A	ton	ns		ZeroOcc	AltConf
2	AAA	1	Total 15	C 8	N 1	O 6	0	0

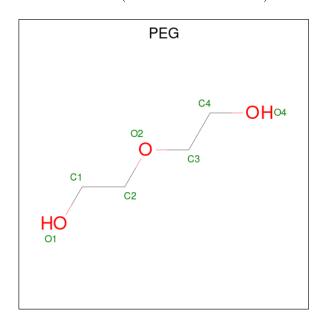
• Molecule 3 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula:  $C_2H_6O_2$ ).





Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	AAA	1	Total C O 4 2 2	0	0
3	BBB	1	Total C O 4 2 2	0	0
3	BBB	1	Total C O 4 2 2	0	0

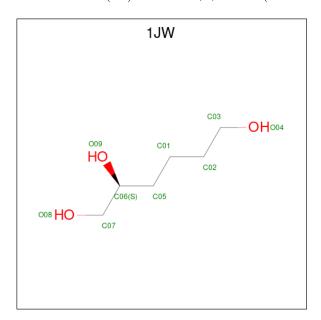
 $\bullet \ \ Molecule \ 4 \ is \ DI(HYDROXYETHYL)ETHER \ (three-letter \ code: \ PEG) \ (formula: \ C_4H_{10}O_3).$ 



Mol	Chain	Residues	Ato	oms		ZeroOcc	AltConf
4	AAA	1	Total 7	C 4	O 3	0	0

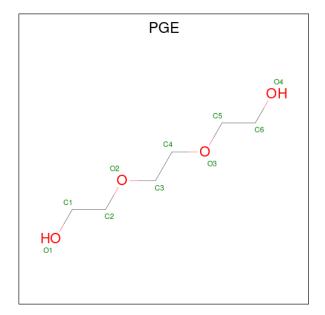


 $\bullet$  Molecule 5 is (2S)-hexane-1,2,6-triol (three-letter code: 1JW) (formula:  $\rm C_6H_{14}O_3).$ 



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	BBB	1	Total C O 9 6 3	0	0
5	BBB	1	Total C O 9 6 3	0	0
5	BBB	1	Total C O 9 6 3	0	0

 $\bullet$  Molecule 6 is TRIETHYLENE GLYCOL (three-letter code: PGE) (formula:  $\mathrm{C_6H_{14}O_4}).$ 





Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	BBB	1	Total C O 10 6 4	0	0

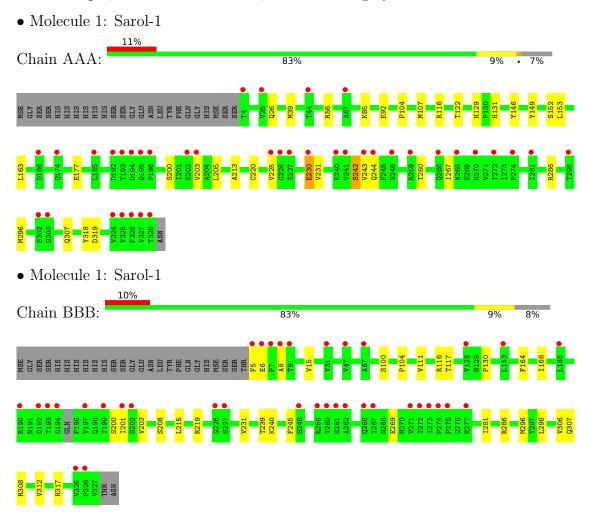
## $\bullet\,$ Molecule 7 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	AAA	185	Total O 189 189	0	4
7	BBB	265	Total O 282 282	0	17



# 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.





# 4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants	44.99Å 58.58Å 166.42Å	Donogitor
a, b, c, $\alpha$ , $\beta$ , $\gamma$	$90.00^{\circ}$ $90.68^{\circ}$ $90.00^{\circ}$	Depositor
Resolution (Å)	39.77 - 2.20	Depositor
Resolution (A)	39.77 - 2.20	EDS
% Data completeness	99.4 (39.77-2.20)	Depositor
(in resolution range)	99.4 (39.77-2.20)	EDS
$R_{merge}$	0.10	Depositor
$R_{sym}$	(Not available)	Depositor
$< I/\sigma(I) > 1$	2.48  (at  2.20Å)	Xtriage
Refinement program	REFMAC 5.8.0267	Depositor
P.P.	0.182 , 0.231	Depositor
$R, R_{free}$	0.191 , $0.235$	DCC
$R_{free}$ test set	2095 reflections $(4.75\%)$	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	28.3	Xtriage
Anisotropy	0.467	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$ , $B_{sol}(Å^2)$	(Not available), (Not available)	EDS
L-test for twinning <sup>2</sup>	$< L > = 0.49, < L^2> = 0.32$	Xtriage
Estimated twinning fraction	0.029 for h,-k,-l	Xtriage
$F_o, F_c$ correlation	0.95	EDS
Total number of atoms	5574	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	34.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 5.41% of the height of the origin peak. No significant pseudotranslation is detected.

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



<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: NGA, PGE, 1JW, PEG, EDO

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	AAA	0.80	0/2580	0.96	3/3508 (0.1%)	
1	BBB	0.92	0/2568	1.03	3/3488 (0.1%)	
All	All	0.86	0/5148	1.00	6/6996 (0.1%)	

There are no bond length outliers.

The worst 5 of 6 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
1	BBB	308	ARG	NE-CZ-NH2	-5.49	117.56	120.30
1	AAA	39[A]	MSE	CG-SE-CE	5.44	110.87	98.90
1	AAA	39[B]	MSE	CG-SE-CE	5.44	110.87	98.90
1	BBB	116	ARG	NE-CZ-NH1	-5.11	117.74	120.30
1	BBB	116	ARG	NE-CZ-NH2	5.06	122.83	120.30

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	AAA	2521	0	2428	16	0
1	BBB	2511	0	2411	16	0
2	AAA	15	0	15	0	0
3	AAA	4	0	6	0	0

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COHABABACA		DIEUIUU	DUIUE
0 0 1000100000			

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	BBB	8	0	12	0	0
4	AAA	7	0	10	0	0
5	BBB	27	0	0	0	0
6	BBB	10	0	14	1	0
7	AAA	189	0	0	3	0
7	BBB	282	0	0	5	0
All	All	5574	0	4896	33	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.

The worst 5 of 33 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	$\begin{array}{c} \text{Interatomic} \\ \text{distance (Å)} \end{array}$	$\begin{array}{c} \text{Clash} \\ \text{overlap } (\text{\AA}) \end{array}$
6:BBB:405:PGE:H32	7:BBB:726:HOH:O	1.90	0.72
1:BBB:15:VAL:HG11	1:BBB:306:VAL:HB	1.74	0.69
1:BBB:130:PRO:HD3	7:BBB:648:HOH:O	2.05	0.57
1:AAA:92:GLU:OE1	1:AAA:131:HIS:ND1	2.40	0.50
1:BBB:201:ILE:HB	1:BBB:281:ILE:CD1	2.41	0.50

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	AAA	325/350~(93%)	316 (97%)	9 (3%)	0	100	100
1	BBB	322/350~(92%)	310 (96%)	12 (4%)	0	100	100
All	All	647/700 (92%)	626 (97%)	21 (3%)	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		Percentiles		
1	AAA	276/301 (92%)	266 (96%)	10 (4%)	35 45		
1	BBB	275/301 (91%)	267 (97%)	8 (3%)	42 54		
All	All	551/602 (92%)	533 (97%)	18 (3%)	38 49		

5 of 18 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	BBB	203	VAL
1	BBB	239	THR
1	BBB	219	ARG
1	AAA	242	SER
1	BBB	200	SER

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)

There are no monosaccharides in this entry.

## 5.6 Ligand geometry (i)

9 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	Trino	Chain	Res	Link	Bo	nd leng	ths	Bond angles		
MIOI	Type	Chain	nes	LIIIK	Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
4	PEG	AAA	403	-	6,6,6	0.48	0	5,5,5	0.44	0
3	EDO	AAA	402	-	3,3,3	0.29	0	2,2,2	0.17	0
5	1JW	BBB	401	-	8,8,8	0.52	0	7,8,8	1.54	1 (14%)
6	PGE	BBB	405	-	9,9,9	1.02	0	8,8,8	0.67	0
2	NGA	AAA	401	-	15,15,15	1.14	1 (6%)	21,21,21	1.58	5 (23%)
3	EDO	BBB	406	-	3,3,3	0.58	0	2,2,2	0.33	0
3	EDO	BBB	404	-	3,3,3	0.46	0	2,2,2	0.34	0
5	1JW	BBB	402	-	8,8,8	0.84	1 (12%)	7,8,8	0.72	0
5	1JW	BBB	403	-	8,8,8	0.67	0	7,8,8	0.67	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
4	PEG	AAA	403	-	-	3/4/4/4	-
3	EDO	AAA	402	-	-	1/1/1/1	-
5	1JW	BBB	401	-	-	5/7/7/7	-
6	PGE	BBB	405	-	-	4/7/7/7	-
2	NGA	AAA	401	-	-	0/6/26/26	0/1/1/1
3	EDO	BBB	406	-	-	1/1/1/1	-
3	EDO	BBB	404	_	-	0/1/1/1	-
5	1JW	BBB	402	-	-	4/7/7/7	-
5	1JW	BBB	403	-	-	0/7/7/7	-

All (2) bond length outliers are listed below:

$\mathbf{Mol}$	Chain	$\operatorname{Res}$	Type	Atoms	$\mathbf{Z}$	Observed(A)	$\operatorname{Ideal}({ ext{A}})$
2	AAA	401	NGA	C1-C2	2.37	1.55	1.52
5	BBB	402	1JW	O09-C06	2.08	1.49	1.43

The worst 5 of 6 bond angle outliers are listed below:



Mol	Chain	Res	Type	Atoms	Z	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
2	AAA	401	NGA	C1-C2-N2	3.94	115.29	110.73
5	BBB	401	1JW	O09-C06-C05	2.90	117.50	109.21
2	AAA	401	NGA	C1-O5-C5	-2.84	108.30	113.66
2	AAA	401	NGA	C3-C4-C5	-2.23	106.26	110.24
2	AAA	401	NGA	O1-C1-C2	-2.08	104.89	109.22

There are no chirality outliers.

5 of 18 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	BBB	401	1JW	C05-C06-C07-O08
5	BBB	402	1JW	C01-C05-C06-O09
6	BBB	405	PGE	O2-C3-C4-O3
5	BBB	402	1JW	C01-C05-C06-C07
6	BBB	405	PGE	O3-C5-C6-O4

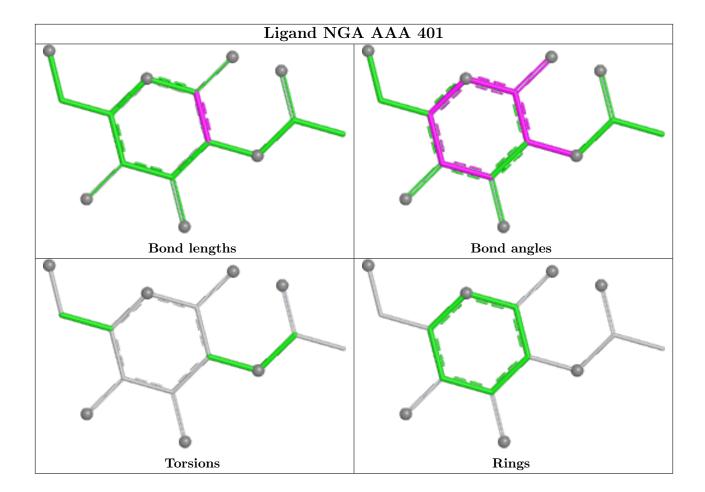
There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	BBB	405	PGE	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 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	$\langle { m RSRZ} \rangle$	# RSRZ > 2		$OWAB(A^2)$	Q<0.9	
1	AAA	321/350 (91%)	0.88	38 (11%)	4	4	21, 36, 60, 86	0
1	BBB	318/350 (90%)	0.87	36 (11%)	5	4	11, 26, 63, 80	0
All	All	639/700 (91%)	0.87	74 (11%)	4	4	11, 32, 61, 86	0

The worst 5 of 74 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	AAA	303	GLY	6.2
1	BBB	227	SER	6.1
1	AAA	259	ARG	5.6
1	AAA	326	PRO	5.3
1	BBB	274	PRO	4.9

## 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.

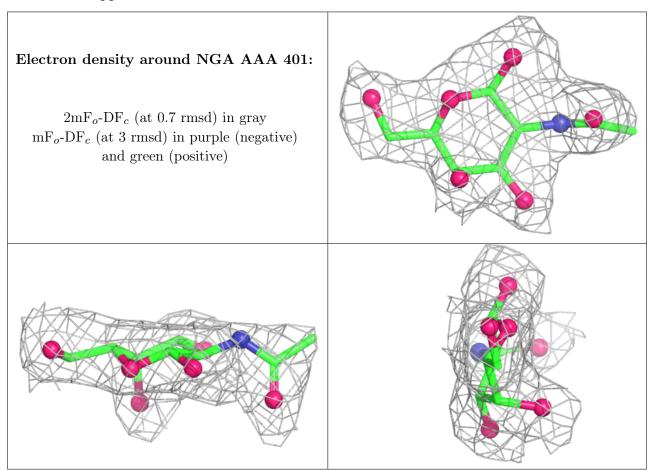
#### 6.4 Ligands (i)

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,  $95^{th}$  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	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q<0.9
6	PGE	BBB	405	10/10	0.62	0.26	39,53,70,71	0
3	EDO	BBB	404	4/4	0.70	0.26	44,47,49,54	0
5	1JW	BBB	402	9/9	0.80	0.30	28,46,67,69	0
5	1JW	BBB	401	9/9	0.82	0.19	18,28,45,52	0
4	PEG	AAA	403	7/7	0.86	0.18	31,38,48,51	0
2	NGA	AAA	401	15/15	0.87	0.16	34,40,50,55	0
3	EDO	AAA	402	4/4	0.88	0.21	39,46,47,54	0
3	EDO	BBB	406	4/4	0.90	0.20	29,41,47,51	0
5	1JW	BBB	403	9/9	0.92	0.23	18,22,26,28	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.

