

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

#### Dec 16, 2023 – 12:01 pm GMT

PDB ID : 4BZR

Title: Human testis angiotensin converting enzyme in complex with K-26

Authors: Kramer, G.J.; Mohd, A.; Schwager, S.L.U.; Masuyer, G.; Acharya, K.R.; Stur-

rock, E.D.; Bachmann, B.O.

Deposited on : 2013-07-29

Resolution : 1.84 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.orgA 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)

 $Refmac \quad : \quad 5.8.0158$ 

CCP4 : 7.0.044 (Gargrove)

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

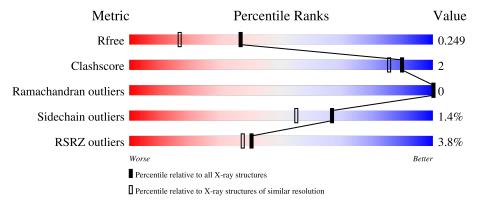
Validation Pipeline (wwPDB-VP) : 2.36

## 1 Overall quality at a glance (i)

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

The reported resolution of this entry is 1.84 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	4003 (1.86-1.82)
Clashscore	141614	4233 (1.86-1.82)
Ramachandran outliers	138981	4185 (1.86-1.82)
Sidechain outliers	138945	4186 (1.86-1.82)
RSRZ outliers	127900	3957 (1.86-1.82)

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	589	93%	6% •
2	В	4	75%	25%



# 2 Entry composition (i)

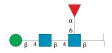
There are 9 unique types of molecules in this entry. The entry contains 5175 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 ANGIOTENSIN-CONVERTING ENZYME.

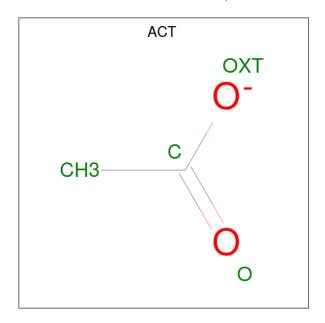
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf	Trace			
1	Λ	581	Total	С	N	О	S	0	0	0
1	A	301	4726	3034	807	861	24	U	0	U

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



$\mathbf{Mol}$	Chain	Residues	Atoms	ZeroOcc	AltConf	Trace	
2	В	4	Total C N O 49 28 2 19	0	0	0	

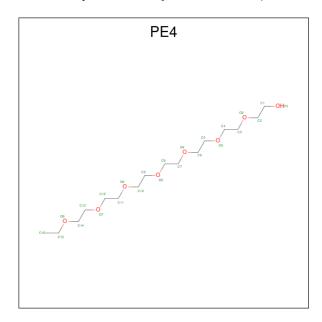
• Molecule 3 is ACETATE ION (three-letter code: ACT) (formula: C<sub>2</sub>H<sub>3</sub>O<sub>2</sub>).





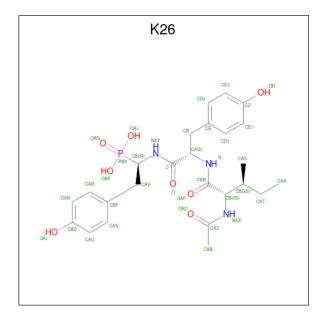
Mol	Chain	Residues	Aton	ns	ZeroOcc	AltConf
3	A	1	Total (	C O 2 2	0	0

• Molecule 4 is  $2-\{2-[2-(2-ETHOXY-ETHOXY)-ETHOXY]-ETHOXY\}$ -ETHOXY}-ETHOXY}-ETHOXY}-ETHOXY}-ETHOXY}-ETHOXY}-ETHOXY



Mol	Chain	Residues	Ato	oms		ZeroOcc	AltConf
4	A	1	Total 16	C 10	O 6	0	0

• Molecule 5 is N-ACETYL-L-ILE-L-TYR-(R)-1-AMINO-2-(4-HYDROXYPHENYL)ETHY LPHOSPHONIC ACID (three-letter code: K26) (formula:  $C_{25}H_{34}N_3O_8P$ ).





$\mathbf{Mol}$	Chain	Residues		Ato	oms			ZeroOcc	AltConf
E	Λ	1	Total	С	N	О	Р	0	0
5	А	1	37	25	3	8	1	U	

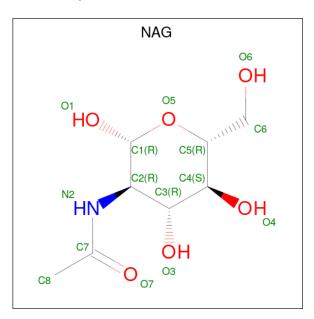
• Molecule 6 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	A	2	Total Cl 2 2	0	0

• Molecule 7 is ZINC ION (three-letter code: ZN) (formula: Zn).

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

 $\bullet$  Molecule 8 is 2-acetamido-2-deoxy-beta-D-glucopyranose (three-letter code: NAG) (formula:  $\rm C_8H_{15}NO_6).$ 



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

• Molecule 9 is water.

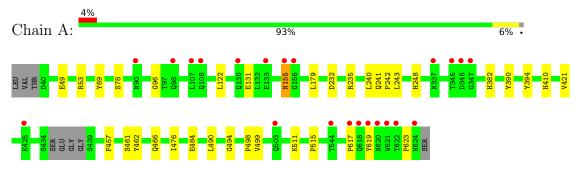
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
9	A	326	Total O 326 326	0	0



## 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: ANGIOTENSIN-CONVERTING ENZYME



• Molecule 2: beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alp ha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose

Chain B: 75% 25%





# 4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants	56.25Å 84.50Å 133.48Å	Donositor
a, b, c, $\alpha$ , $\beta$ , $\gamma$	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	39.37 - 1.84	Depositor
Resolution (A)	44.19 - 1.84	EDS
% Data completeness	92.0 (39.37-1.84)	Depositor
(in resolution range)	91.9 (44.19-1.84)	EDS
$R_{merge}$	0.12	Depositor
$R_{sym}$	(Not available)	Depositor
$< I/\sigma(I) > 1$	1.10 (at 1.83Å)	Xtriage
Refinement program	REFMAC 5.5.0109	Depositor
D D.	0.214 , 0.252	Depositor
$R, R_{free}$	0.213 , 0.249	DCC
$R_{free}$ test set	2657 reflections (5.12%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	21.5	Xtriage
Anisotropy	0.447	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$ , $B_{sol}(Å^2)$	0.36, 38.7	EDS
L-test for twinning <sup>2</sup>	$ < L >=0.50, < L^2>=0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.94	EDS
Total number of atoms	5175	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	23.0	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.

<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: PE4, K26, CL, NAG, FUC, ACT, BMA, ZN

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		
	Chain	RMSZ	# Z  > 5	RMSZ	# Z  > 5	
1	A	0.36	0/4866	0.50	0/6622	

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	4726	0	4542	16	0
2	В	49	0	43	0	0
3	A	4	0	3	1	0
4	A	16	0	21	0	0
5	A	37	0	31	0	0
6	A	2	0	0	0	0
7	A	1	0	0	0	0
8	A	14	0	13	0	0
9	A	326	0	0	2	0
All	All	5175	0	4653	17	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 2.



All (17) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic	Clash
Atom-1	Atom-2	${ m distance}({ m \AA})$	overlap (Å)
1:A:490:LEU:HD21	1:A:619:TYR:HB2	1.78	0.63
1:A:232:ASP:OD1	1:A:235:ARG:NH2	2.36	0.59
3:A:1625:ACT:H1	9:A:2181:HOH:O	2.06	0.55
1:A:49:GLU:O	1:A:53:ARG:HG2	2.07	0.54
1:A:96:GLY:HA3	1:A:122:LEU:HD22	1.90	0.53
1:A:69:TYR:CE1	1:A:78:SER:OG	2.63	0.50
1:A:155:ASN:ND2	1:A:155:ASN:H	2.13	0.46
1:A:462:TYR:O	1:A:466:GLN:HG2	2.15	0.46
1:A:498:PRO:HA	1:A:623:PRO:HG2	1.97	0.46
1:A:248:HIS:HE1	1:A:494:GLY:O	2.00	0.44
1:A:511:LYS:O	1:A:515:PRO:HD2	2.18	0.44
1:A:179:LEU:HD11	1:A:499:VAL:HG23	2.00	0.43
1:A:457:PHE:CE2	1:A:461:SER:HB3	2.54	0.42
1:A:241:GLN:HB2	1:A:242:PRO:HD3	2.01	0.42
1:A:382:HIS:CD2	1:A:421:VAL:HG21	2.56	0.41
1:A:617:PRO:HD2	9:A:2174:HOH:O	2.21	0.40
1:A:476:ILE:HG12	1:A:484:GLU:HG3	2.04	0.40

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	s Percentiles		
1	A	577/589 (98%)	565 (98%)	12 (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	Percentiles	
1	A	502/515 (98%)	495 (99%)	7 (1%)	67 55	

All (7) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	131	GLU
1	A	155	ASN
1	A	240	LEU
1	A	243	LEU
1	A	390	TYR
1	A	394	TYR
1	A	410	HIS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (9) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	87	GLN
1	A	91	HIS
1	A	155	ASN
1	A	231	GLN
1	A	248	HIS
1	A	262	GLN
1	A	426	HIS
1	A	560	GLN
1	A	579	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)

4 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	Trino	Chain	Res	Link	Вс	Bond lengths			Bond angles		
MIOI	Mol Type Chain	rtes	LIIIK	Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2		
2	NAG	В	1	1,2	14,14,15	0.52	0	17,19,21	0.76	0	
2	NAG	В	2	2	14,14,15	0.50	0	17,19,21	0.69	0	
2	BMA	В	3	2	11,11,12	0.45	0	15,15,17	1.13	1 (6%)	
2	FUC	В	4	2	10,10,11	0.62	0	14,14,16	0.60	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	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	-	2/2/19/22	0/1/1/1
2	FUC	В	4	2	-	-	0/1/1/1

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
2	В	3	BMA	C1-O5-C5	3.20	116.53	112.19

There are no chirality outliers.

All (2) torsion outliers are listed below:

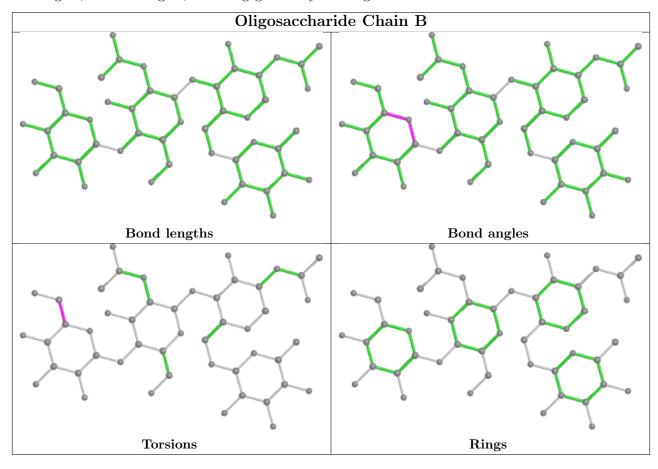
Mol	Chain	Res	Type	Atoms
2	В	3	BMA	C4-C5-C6-O6
2	В	3	BMA	O5-C5-C6-O6

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 oligosaccharide.



### 5.6 Ligand geometry (i)

Of 7 ligands modelled in this entry, 3 are monoatomic - leaving 4 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	Т	Chain	Res	Link	Bond lengths			Bond angles		
MIOI	Type	Chain	nes	Lilik	Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
4	PE4	A	1626	-	15,15,23	0.51	0	14,14,22	0.14	0
8	NAG	A	1672	1	14,14,15	0.51	0	17,19,21	1.02	1 (5%)
3	ACT	A	1625	-	3,3,3	0.79	0	3,3,3	1.37	0
5	K26	A	1627	7	38,38,38	1.23	2 (5%)	49,53,53	0.97	2 (4%)



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	PE4	A	1626	-	-	5/13/13/21	-
8	NAG	A	1672	1	-	0/6/23/26	0/1/1/1
5	K26	A	1627	7	-	0/40/40/40	0/2/2/2

#### All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	$\operatorname{Observed}(\text{\AA})$	$\operatorname{Ideal}(\text{\AA})$
5	A	1627	K26	PBK-OAJ	4.65	1.62	1.54
5	A	1627	K26	PBK-OAK	4.17	1.61	1.54

#### All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
5	A	1627	K26	CAV-CBI-NAY	-4.21	106.43	111.39
8	A	1672	NAG	C1-O5-C5	3.47	116.89	112.19
5	A	1627	K26	C-CA-N	-2.09	105.47	111.16

There are no chirality outliers.

All (5) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	A	1626	PE4	O3-C5-C6-O4
4	A	1626	PE4	O1-C1-C2-O2
4	A	1626	PE4	C7-C8-O5-C9
4	A	1626	PE4	C6-C5-O3-C4
4	A	1626	PE4	C8-C7-O4-C6

There are no ring outliers.

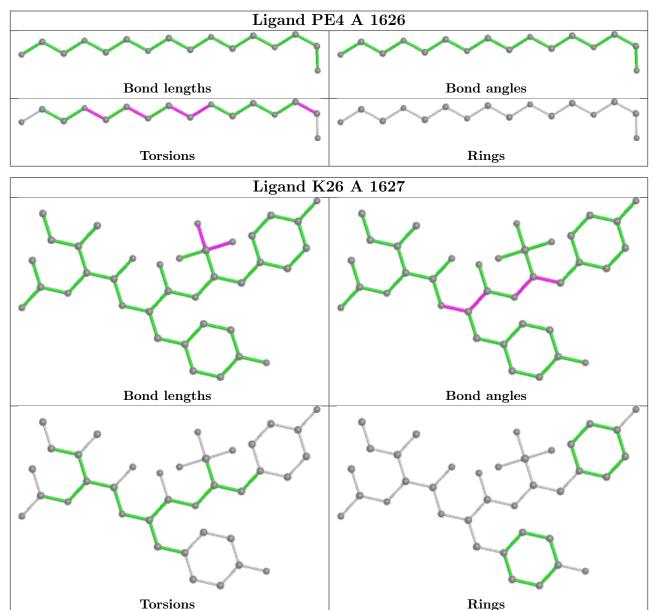
1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	1625	ACT	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>  #RSRZ>2		$OWAB(A^2)$	Q<0.9
1	A	581/589 (98%)	0.21	22 (3%) 4	0 37	12, 22, 36, 46	0

All (22) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	155	ASN	6.8
1	A	619	TYR	5.5
1	A	618	GLN	5.0
1	A	617	PRO	4.8
1	A	347	GLY	4.6
1	A	346	ASP	4.5
1	A	620	ASN	4.2
1	A	156	GLY	4.0
1	A	624	ASN	3.6
1	A	345	THR	3.5
1	A	622	THR	3.1
1	A	621	TRP	3.1
1	A	108	GLN	2.8
1	A	544	THR	2.8
1	A	90	ASN	2.7
1	A	130	GLN	2.7
1	A	337	ASN	2.6
1	A	107	LEU	2.5
1	A	133	GLU	2.5
1	A	503	GLN	2.4
1	A	425	LYS	2.4
1	A	98	GLN	2.1

### 6.2 Non-standard residues in protein, DNA, RNA chains (i)

There are no non-standard protein/DNA/RNA residues in this entry.

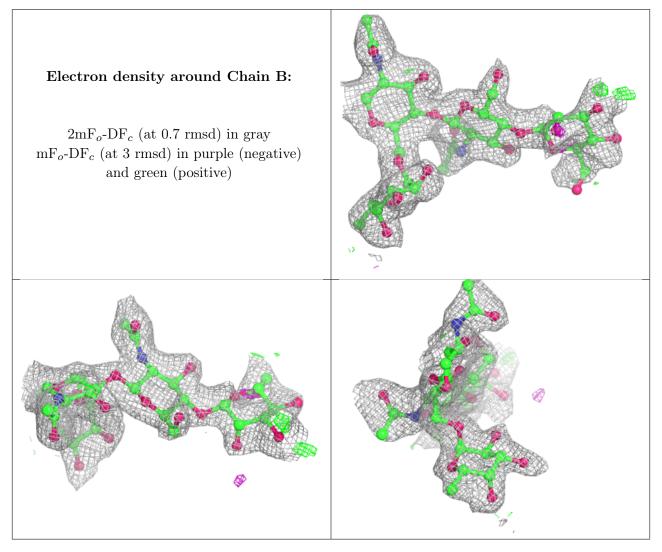


### 6.3 Carbohydrates (i)

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	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q<0.9
2	BMA	В	3	11/12	0.46	0.29	51,52,53,53	0
2	NAG	В	1	14/15	0.83	0.12	41,42,43,45	0
2	FUC	В	4	10/11	0.83	0.16	41,42,43,43	0
2	NAG	В	2	14/15	0.87	0.12	46,47,48,50	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.





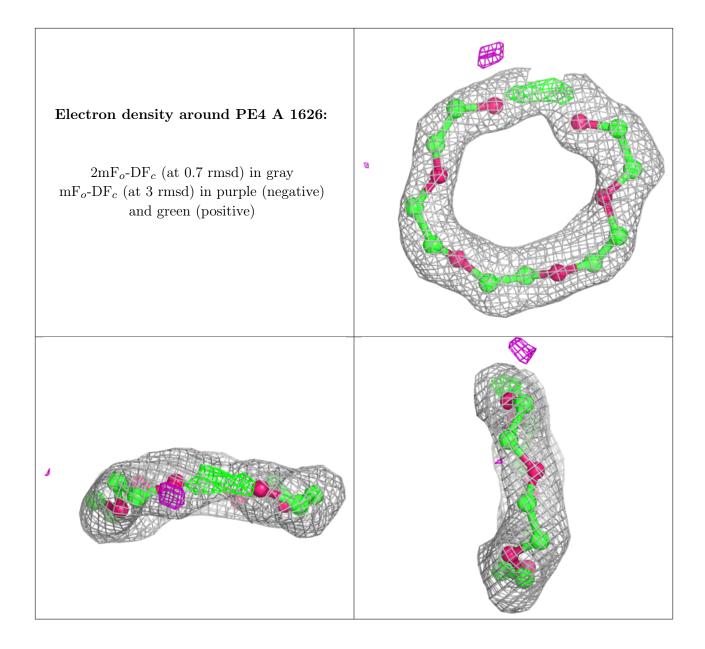
### 6.4 Ligands (i)

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.

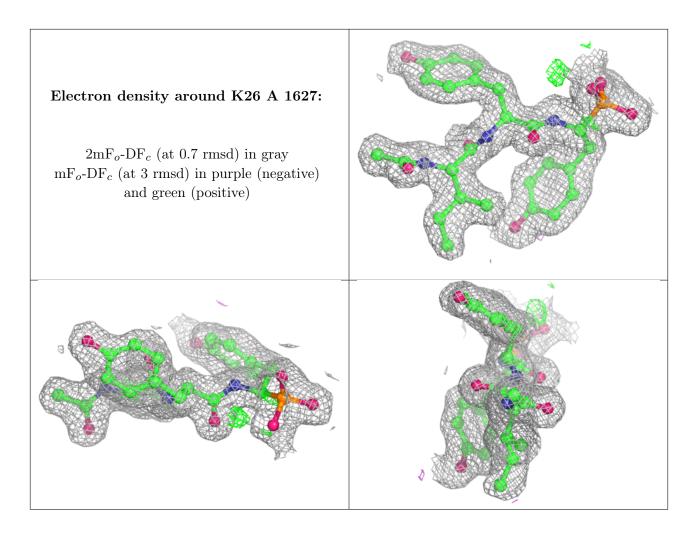
Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q<0.9
8	NAG	A	1672	14/15	0.74	0.26	39,42,43,43	0
3	ACT	A	1625	4/4	0.77	0.27	41,41,41,41	0
4	PE4	A	1626	16/24	0.78	0.18	39,42,43,43	0
6	CL	A	1629	1/1	0.96	0.08	27,27,27,27	0
5	K26	A	1627	37/37	0.96	0.13	14,17,21,21	0
6	CL	A	1628	1/1	0.99	0.05	18,18,18,18	0
7	ZN	A	1630	1/1	1.00	0.10	18,18,18,18	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.

