

Full wwPDB X-ray Structure Validation Report (i)

Aug 10, 2020 – 01:18 PM BST

PDB ID : 5YJM

Title: Human chymase in complex with 7-oxo-3-(phenoxyimino)-1,4-diazepane

derivative

Authors : Sugawara, H. Deposited on : 2017-10-11

Resolution : 1.90 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 following versions of software and data (see references (1)) were used in the production of this report:

MolProbity : 4.02b-467

Mogul: 1.8.5 (274361), CSD as541be (2020)

Xtriage (Phenix) : 1.13

EDS : 2.13.1 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)

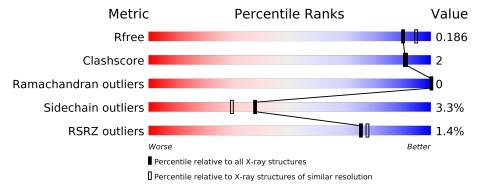
Validation Pipeline (wwPDB-VP) : 2.13.1

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 1.90 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	$\begin{array}{c} \text{Whole archive} \\ (\#\text{Entries}) \end{array}$	$\begin{array}{c} {\rm Similar\ resolution} \\ (\#{\rm Entries,\ resolution\ range(\AA)}) \end{array}$
R_{free}	130704	6207 (1.90-1.90)
Clashscore	141614	6847 (1.90-1.90)
Ramachandran outliers	138981	6760 (1.90-1.90)
Sidechain outliers	138945	6760 (1.90-1.90)
RSRZ outliers	127900	6082 (1.90-1.90)

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 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		
			<mark>%</mark>		
1	A	226	86%	9%	• •



2 Entry composition (i)

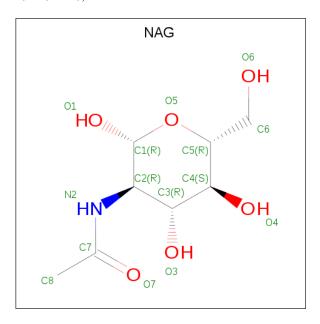
There are 5 unique types of molecules in this entry. The entry contains 1857 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 human chymase.

Mol	Chain	Residues		$\mathbf{A}\mathbf{t}$	oms			ZeroOcc	AltConf	Trace
1	Λ	218	Total	С	N	О	S	0	1	0
1	A	210	1698	1075	311	302	10	0	1	

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



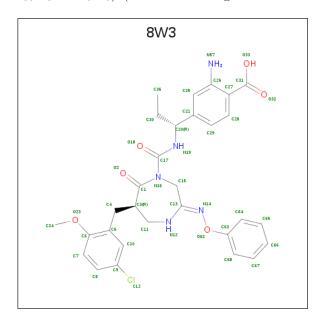
Mol	Chain	Residues	${f Atoms}$				ZeroOcc	AltConf
2	A	1	Total 14			O 5	0	0
2	A	1	Total 14		N 1	O 5	0	0

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

\mathbf{Mol}	Chain	Residues	${f Atoms}$	ZeroOcc	AltConf
3	A	1	Total Zn 1 1	0	0



• Molecule 4 is 2-amino-4-((R)-1-((R,Z)-6-(5-chloro-2-methoxybenzyl)-7-oxo-3-(phenoxyim ino)-1,4-diazepane-1-carboxamido)propyl)benzoic acid (three-letter code: 8W3) (formula: $C_{30}H_{32}ClN_5O_6$) (labeled as "Ligand of Interest" by author).



Mol	Chain	Residues		$\mathbf{A}\mathbf{t}$	oms			ZeroOcc	AltConf
4	A	1	Total	C 30	Cl 1	N 5	O 6	0	0

• Molecule 5 is water.

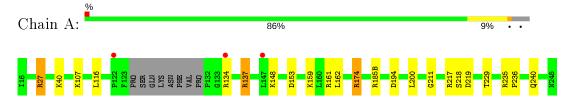
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	88	Total O 88 88	0	0



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: human chymase





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 43	Depositor
Cell constants	$75.09 ext{Å}$ $75.09 ext{Å}$ $49.75 ext{Å}$	Danasitan
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	29.97 - 1.90	Depositor
Resolution (A)	29.97 - 1.90	EDS
% Data completeness	96.0 (29.97-1.90)	Depositor
(in resolution range)	96.0 (29.97-1.90)	EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	6.87 (at 1.91Å)	Xtriage
Refinement program	REFMAC 5.8.0158	Depositor
R, R_{free}	0.147 , 0.186	Depositor
$\Pi,\ \Pi free$	0.150 , 0.186	DCC
R_{free} test set	1090 reflections (5.15%)	wwPDB-VP
Wilson B-factor (Å ²)	19.8	Xtriage
Anisotropy	0.050	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.34 , 46.1	EDS
L-test for twinning ²	$< L >=0.44, < L^2>=0.26$	Xtriage
Estimated twinning fraction	0.062 for h,-k,-l	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	1857	wwPDB-VP
Average B, all atoms (Å ²)	26.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 5.18% 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: ZN, NAG, 8W3

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	Boı	nd lengths	Bond angles		
IVIOI	Chain	RMSZ	# Z > 5	RMSZ	# Z >5	
1	A	1.28	$2/1741 \ (0.1\%)$	1.22	$10/2351 \ (0.4\%)$	

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(\mathbf{\mathring{A}})$	$\operatorname{Ideal}(\operatorname{\AA})$
1	A	218	SER	CB-OG	-5.50	1.35	1.42
1	A	185(B)	ARG	CZ-NH2	5.49	1.40	1.33

All (10) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\mathbf{Observed}(^o)$	$\operatorname{Ideal}({}^o)$
1	A	161	ARG	NE-CZ-NH1	8.40	124.50	120.30
1	A	153	ASP	CB-CG-OD2	-8.15	110.97	118.30
1	A	174	ARG	NE-CZ-NH2	-6.76	116.92	120.30
1	A	219	ASP	CB-CG-OD1	6.16	123.84	118.30
1	A	116	LEU	CB-CG-CD2	5.89	121.01	111.00
1	A	27	ARG	NE-CZ-NH1	5.53	123.06	120.30
1	A	107	LYS	CD-CE-NZ	-5.19	99.77	111.70
1	A	137	ARG	NE-CZ-NH1	5.12	122.86	120.30
1	A	217	ARG	NE-CZ-NH2	-5.07	117.76	120.30
1	A	194	ASP	CB-CG-OD1	-5.05	113.75	118.30

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	$\mathbf{H}(\mathbf{model})$	$\mathbf{H}(\mathbf{added})$	Clashes	Symm-Clashes	
1	A	1698	0	1709	6	0	
2	A	28	0	26	0	0	
3	A	1	0	0	0	0	
4	A	42	0	0	0	0	
5	A	88	0	0	0	0	
All	All	1857	0	1735	6	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 (6) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	$egin{array}{ll} ext{Interatomic} \ ext{distance} \ (ext{\AA}) \end{array}$	Clash overlap (Å)	
1:A:27:ARG:NH2	1:A:137:ARG:HD2	2.23	0.54	
1:A:27:ARG:HH22	1:A:137:ARG:HD2	1.77	0.48	
1:A:137:ARG:NH1	1:A:159:LYS:HD3	2.34	0.42	
1:A:211:GLY:HA2	1:A:229:THR:O	2.20	0.41	
1:A:240:GLN:HE21	1:A:240:GLN:HB3	1.64	0.41	
1:A:235:ARG:O	1:A:236:PRO:C	2.59	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	Percentiles	
1	A	215/226 (95%)	212 (99%)	3 (1%)	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	184/191 (96%)	178 (97%)	6 (3%)	38 29	

All (6) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	40	LYS
1	A	134	ARG
1	A	148	LYS
1	A	162	LEU
1	A	174	ARG
1	A	200	LEU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (3) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	210	GLN
1	A	240	GLN
1	A	243	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)

2 non-standard protein/DNA/RNA residues 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		
WIOI	туре	Chain	nes	LIIIK	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2	
2	NAG	A	302	1	14,14,15	1.46	2 (14%)	17,19,21	1.94	6 (35%)	
2	NAG	A	301	1	14,14,15	0.81	0	17,19,21	2.53	6 (35%)	

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	A	302	1	-	2/6/23/26	0/1/1/1
2	NAG	A	301	1	-	2/6/23/26	0/1/1/1

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\operatorname{Observed}(\operatorname{\AA})$	$\operatorname{Ideal}(\operatorname{\AA})$
2	A	302	NAG	O5-C5	3.09	1.49	1.43
2	A	302	NAG	C2-N2	2.87	1.51	1.46

All (12) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^o)$	$\mathbf{Ideal}(^{o})$
2	A	301	NAG	C8-C7-N2	4.86	124.33	116.10
2	A	301	NAG	O7-C7-N2	-4.36	113.94	121.95
2	A	302	NAG	O5-C5-C6	4.23	113.83	107.20
2	A	301	NAG	O6-C6-C5	-3.77	98.34	111.29
2	A	301	NAG	O5-C5-C6	3.42	112.56	107.20
2	A	301	NAG	O4-C4-C3	-3.18	102.99	110.35
2	A	302	NAG	O6-C6-C5	-2.77	101.80	111.29
2	A	302	NAG	C3-C4-C5	-2.74	105.36	110.24
2	A	301	NAG	O3-C3-C4	2.60	116.36	110.35
2	A	302	NAG	O5-C1-C2	-2.52	107.31	111.29
2	A	302	NAG	O4-C4-C3	2.20	115.43	110.35
2	A	302	NAG	C1-C2-N2	2.06	114.00	110.49

There are no chirality outliers.

All (4) torsion outliers are listed below:



Mol	Chain	Res	Type	Atoms
2	A	301	NAG	C8-C7-N2-C2
2	A	301	NAG	O7-C7-N2-C2
2	A	302	NAG	C3-C2-N2-C7
2	A	302	NAG	C1-C2-N2-C7

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

Of 4 ligands modelled in this entry, 1 is monoatomic - leaving 3 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	Bond lengths			Bond angles		
IVIOI	Type	Chain	nes		Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	NAG	A	302	1	14,14,15	1.46	2 (14%)	17,19,21	1.94	6 (35%)
2	NAG	A	301	1	14,14,15	0.81	0	17,19,21	2.53	6 (35%)
4	8W3	A	304	-	36,45,45	1.58	6 (16%)	44,62,62	3.11	11 (25%)

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	${f Res}$	Link	Chirals	Torsions	Rings
2	NAG	A	302	1	-	2/6/23/26	0/1/1/1
2	NAG	A	301	1	-	2/6/23/26	0/1/1/1
4	8W3	A	304	_	-	7/20/46/46	0/3/4/4

All (8) bond length outliers are listed below:



Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\operatorname{Observed}(\operatorname{\AA})$	$\operatorname{Ideal}(ext{\AA})$
4	A	304	8W3	C27-C31	4.97	1.52	1.47
4	A	304	8W3	C9-CL2	-4.38	1.65	1.74
2	A	302	NAG	O5-C5	3.09	1.49	1.43
2	A	302	NAG	C2-N2	2.87	1.51	1.46
4	A	304	8W3	C25-C21	2.67	1.43	1.39
4	A	304	8W3	C4-C5	-2.42	1.48	1.51
4	A	304	8W3	C11-N12	-2.41	1.42	1.45
4	A	304	8W3	O18-C17	-2.04	1.19	1.23

All (23) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^o)$	$\mathbf{Ideal}(^o)$
4	A	304	8W3	C30-C20-C21	14.45	128.46	112.52
4	A	304	8W3	C21-C20-N19	-8.46	96.18	112.00
2	A	301	NAG	C8-C7-N2	4.86	124.33	116.10
2	A	301	NAG	O7-C7-N2	-4.36	113.94	121.95
4	A	304	8W3	C5-C4-C3	4.32	119.74	114.12
2	A	302	NAG	O5-C5-C6	4.23	113.83	107.20
4	A	304	8W3	C63-O62-N14	4.15	118.15	111.71
2	A	301	NAG	O6-C6-C5	-3.77	98.34	111.29
4	A	304	8W3	N19-C17-N16	3.66	119.36	114.04
2	A	301	NAG	O5-C5-C6	3.42	112.56	107.20
4	A	304	8W3	C4-C5-C6	-3.40	117.54	120.89
4	A	304	8W3	C24-O23-C6	3.25	122.44	117.53
2	A	301	NAG	O4-C4-C3	-3.18	102.99	110.35
4	A	304	8W3	C10-C5-C6	3.18	121.60	118.26
2	A	302	NAG	O6-C6-C5	-2.77	101.80	111.29
2	A	302	NAG	C3-C4-C5	-2.74	105.36	110.24
2	A	301	NAG	O3-C3-C4	2.60	116.36	110.35
4	A	304	8W3	O23-C6-C7	2.57	128.77	124.37
2	A	302	NAG	O5-C1-C2	-2.52	107.31	111.29
2	A	302	NAG	O4-C4-C3	2.20	115.43	110.35
4	A	304	8W3	C30-C20-N19	-2.15	106.99	110.69
4	A	304	8W3	C8-C9-CL2	-2.10	116.06	119.35
2	A	302	NAG	C1-C2-N2	2.06	114.00	110.49

There are no chirality outliers.

All (11) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	A	304	8W3	C21-C20-C30-C35
2	A	301	NAG	C8-C7-N2-C2

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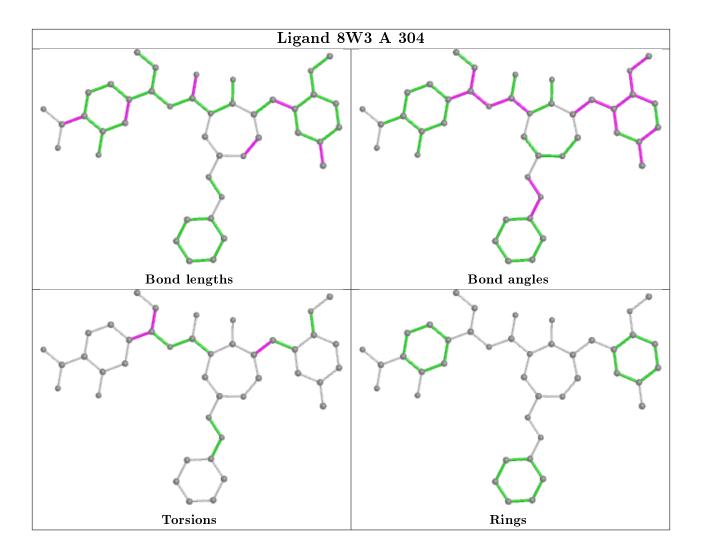
Mol	Chain	Res	Type	Atoms
2	A	301	NAG	O7-C7-N2-C2
4	A	304	8W3	C30-C20-C21-C25
4	A	304	8W3	N19-C20-C21-C25
4	A	304	8W3	N19-C20-C21-C29
4	A	304	8W3	C30-C20-C21-C29
4	A	304	8W3	N19-C20-C30-C35
4	A	304	8W3	C11-C3-C4-C5
2	A	302	NAG	C3-C2-N2-C7
2	A	302	NAG	C1-C2-N2-C7

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 $>$	$\mathbb{R}\mathbf{Z}>$ $\#\mathbb{R}\mathbf{S}\mathbb{R}\mathbf{Z}{>}2$		$OWAB(A^2)$	Q < 0.9	
1	A	218/226 (96%)	-0.35	3 (1%)	75	77	14, 24, 47, 68	0

All (3) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	147	LEU	2.6
1	A	134	ARG	2.5
1	A	122	PRO	2.0

6.2 Non-standard residues in protein, DNA, RNA chains (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	${f B\text{-factors}}({f \AA}^2)$	Q < 0.9
2	NAG	A	302	14/15	0.76	0.31	50,62,73,74	0
2	NAG	A	301	14/15	0.95	0.15	38,43,47,47	0

6.3 Carbohydrates (i)

There are no monosaccharides in this entry.

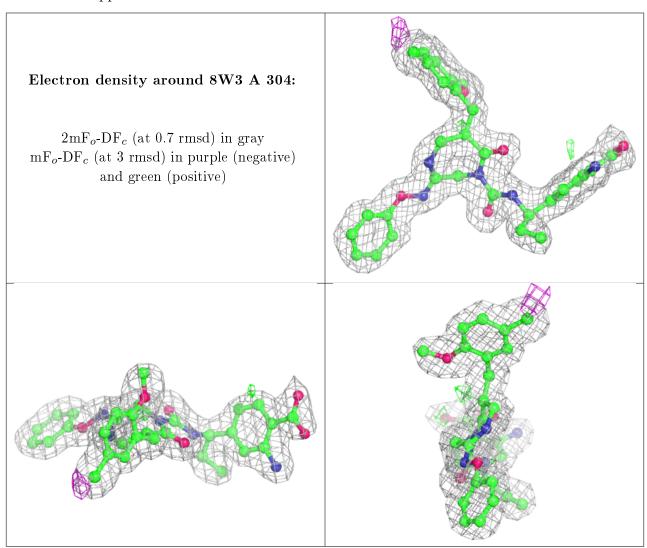
6.4 Ligands (i)

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	${f B-factors}({f A}^2)$	Q < 0.9
2	NAG	A	302	14/15	0.76	0.31	50,62,73,74	0
2	NAG	A	301	14/15	0.95	0.15	38,43,47,47	0
4	8W3	A	304	42/42	0.97	0.08	18,23,39,55	0
3	ZN	A	303	1/1	1.00	0.02	21,21,21,21	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.

