

Full wwPDB X-ray Structure Validation Report (i)

Jan 14, 2024 - 04:24 am GMT

PDB ID	:	6RUJ
Title	:	Factor inhibiting HIF-1 alpha in complex with consensus ankyrin repeat dom
		ain-(d)3-hydroxy-Leu peptide
Authors	:	Nakashima, Y.; McDonough, M.A.; Schofield, C.J.
Deposited on	:	2019-05-28
Resolution	:	2.42 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.

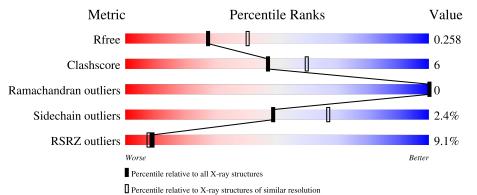
The following versions of software and data (see references (1)) were used in the production of this report:

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 2.42 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	$\begin{array}{c} \textbf{Whole archive} \\ (\#\textbf{Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries,\ resolution\ range}({ m \AA}))$
R_{free}	130704	4647 (2.44-2.40)
Clashscore	141614	5161(2.44-2.40)
Ramachandran outliers	138981	5073(2.44-2.40)
Sidechain outliers	138945	5074(2.44-2.40)
RSRZ outliers	127900	4543 (2.44-2.40)

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	А	349	8%	15% •
2	В	15	33%	7%

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:



Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
2	KJW	В	803	-	Х	-	-



6RUJ

2 Entry composition (i)

There are 6 unique types of molecules in this entry. The entry contains 5695 atoms, of which 2701 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 Hypoxia-inducible factor 1-alpha inhibitor.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
1	А	349	Total	С	Н	N	0	S	96	0	0
		0 - 0	5340	1776	2578	464	511	11			Ŭ

• Molecule 2 is a protein called CONSENSUS ANKYRIN REPEAT DOMAIN-(D)3-hydroxy-Leu.

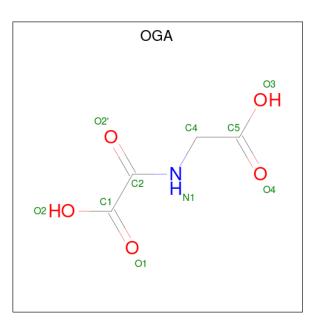
Mol	Chain	Residues		A	toms			ZeroOcc	AltConf	Trace
2	В	15	Total	С	Н	Ν	0	4	0	0
		_0	233	73	120	18	22	_	~	Ĵ

• Molecule 3 is ZINC ION (three-letter code: ZN) (formula: Zn) (labeled as "Ligand of Interest" by depositor).

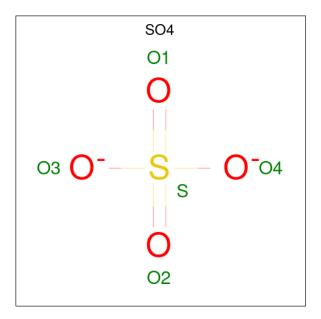
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	А	1	TotalZn11	0	0

• Molecule 4 is N-OXALYLGLYCINE (three-letter code: OGA) (formula: C₄H₅NO₅) (labeled as "Ligand of Interest" by depositor).





Mol	Chain	Residues	Atoms			ZeroOcc	AltConf		
4	Δ	1	Total	С	Η	Ν	0	0	0
4	А	1	13	4	3	1	5		0



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	А	1	$\begin{array}{ccc} \text{Total} & \text{O} & \text{S} \\ 5 & 4 & 1 \end{array}$	0	0
5	А	1	$\begin{array}{ccc} \text{Total} & \text{O} & \text{S} \\ 5 & 4 & 1 \end{array}$	0	0
5	А	1	$\begin{array}{ccc} \text{Total} & \text{O} & \text{S} \\ 5 & 4 & 1 \end{array}$	0	0



• Molecule 6 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	А	84	Total O 84 84	0	0
6	В	9	Total O 9 9	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: Hypoxia-inducible factor 1-alpha inhibitor







4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 41 21 2	Depositor
Cell constants	86.40Å 86.40Å 147.26Å	Depositor
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	56.04 - 2.42	Depositor
Resolution (A)	56.04 - 2.42	EDS
% Data completeness	99.8 (56.04-2.42)	Depositor
(in resolution range)	99.8(56.04-2.42)	EDS
R _{merge}	0.15	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$1.42 (at 2.42 \text{\AA})$	Xtriage
Refinement program	PHENIX (1.10.1_2155)	Depositor
D D.	0.209 , 0.257	Depositor
R, R_{free}	0.209 , 0.258	DCC
R_{free} test set	1048 reflections $(4.78%)$	wwPDB-VP
Wilson B-factor $(Å^2)$	59.8	Xtriage
Anisotropy	0.385	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.40, 69.8	EDS
L-test for twinning ²	$ \langle L \rangle = 0.50, \langle L^2 \rangle = 0.34$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	5695	wwPDB-VP
Average B, all atoms $(Å^2)$	119.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 3.61% of the height of the origin peak. No significant pseudotranslation is detected.

²Theoretical 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.



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: SO4, ZN, KJW, OGA

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	А	0.67	0/2844	0.71	2/3875~(0.1%)	
2	В	0.74	0/103	0.70	0/137	
All	All	0.67	0/2947	0.71	2/4012~(0.0%)	

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Ζ	$\mathbf{Observed}(^{o})$	$Ideal(^{o})$
1	А	238	ARG	NE-CZ-NH2	-7.17	116.71	120.30
1	А	238	ARG	NE-CZ-NH1	5.75	123.18	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	А	2762	2578	2573	34	0
2	В	113	120	108	0	0
3	А	1	0	0	0	0
4	А	10	3	3	0	0
5	А	15	0	0	0	0
6	А	84	0	0	4	2
6	В	9	0	0	1	0



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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
All	All	2994	2701	2684	34	2

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 6.

All (34) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic	Clash
		distance (Å)	$\frac{\text{overlap}(\text{\AA})}{0.60}$
1:A:103:TYR:OH	1:A:117:ARG:N	2.23	0.68
1:A:97:THR:OG1	1:A:98:HIS:N	2.31	0.63
1:A:261:TYR:CE2	6:A:649:HOH:O	2.51	0.58
1:A:75:LYS:NZ	1:A:161:ASP:OD1	2.38	0.55
1:A:162:PHE:HZ	1:A:185:ASN:OD1	1.93	0.51
1:A:18:GLU:HB3	6:A:631:HOH:O	2.11	0.51
1:A:110:ASN:OD1	1:A:111:PHE:HD1	1.94	0.50
1:A:103:TYR:CD1	1:A:103:TYR:N	2.79	0.50
1:A:222:ASP:OD1	1:A:222:ASP:C	2.51	0.49
1:A:66:ASP:N	1:A:66:ASP:OD1	2.46	0.48
1:A:335:GLU:OE1	6:A:601:HOH:O	2.20	0.48
1:A:238:ARG:HD3	6:B:904:HOH:O	2.13	0.47
1:A:99:LYS:CE	1:A:245:ASP:OD2	2.63	0.47
1:A:82:GLN:OE1	1:A:126:HIS:HB2	2.15	0.46
1:A:156:ARG:CB	6:A:641:HOH:O	2.63	0.46
1:A:274:PRO:HB2	1:A:277:TRP:CD1	2.51	0.46
1:A:120:ARG:NH1	1:A:122:GLU:OE2	2.49	0.45
1:A:111:PHE:N	1:A:111:PHE:CD1	2.84	0.45
1:A:94:SER:O	1:A:118:SER:HB2	2.17	0.45
1:A:146:LEU:C	1:A:146:LEU:HD23	2.38	0.44
1:A:228:TYR:CD1	1:A:252:PHE:HB3	2.53	0.44
1:A:228:TYR:CE1	1:A:252:PHE:HB3	2.53	0.43
1:A:280:HIS:HE1	1:A:282:GLU:OE1	2.01	0.43
1:A:53:GLU:HG3	1:A:177:ARG:HH22	1.83	0.43
1:A:28:ASP:O	1:A:31:GLN:HG3	2.18	0.43
1:A:192:GLU:OE1	1:A:286:ASN:HA	2.19	0.42
1:A:10:ALA:HA	1:A:39:THR:O	2.19	0.42
1:A:67:THR:O	1:A:68:ASN:HB2	2.19	0.42
1:A:102:TYR:CD1	1:A:102:TYR:C	2.92	0.42
1:A:275:MET:O	1:A:276:TYR:HB2	2.19	0.42
1:A:222:ASP:OD1	1:A:223:GLN:HG3	2.20	0.41
1:A:199:HIS:HB3	1:A:239:GLN:HG2	2.01	0.41
1:A:125:PHE:O	1:A:129:VAL:HG23	2.22	0.40



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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:64:LEU:HD13	1:A:169:TRP:CZ2	2.56	0.40

All (2) 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)
6:A:679:HOH:O	6:A:681:HOH:O[7_555]	2.03	0.17
6:A:672:HOH:O	6:A:681:HOH:O[7_555]	2.16	0.04

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	Perce	entiles
1	А	347/349~(99%)	334 (96%)	13~(4%)	0	100	100
2	В	12/15~(80%)	11 (92%)	1 (8%)	0	100	100
All	All	359/364~(99%)	345~(96%)	14 (4%)	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	Analysed Rotameric		Percentiles	
1	А	279/304~(92%)	272~(98%)	7 (2%)	47 66	



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 Mol
 Chain
 Analysed
 Botamer

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles		
2	В	11/11 (100%)	11 (100%)	0	100	100	
All	All	290/315~(92%)	283~(98%)	7~(2%)	49	67	

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

Mol	Chain	Res	Type
1	А	47	GLN
1	А	53	GLU
1	А	103	TYR
1	А	111	PHE
1	А	145	TYR
1	А	295	PHE
1	А	344	ILE

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)

1 non-standard protein/DNA/RNA residue is 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	Type	Type Chain	Chain	Chain	Chain	Chain	Chain	Chain	Chain	Chain	Chain	Chain	Chain	Res	Link	B	ond leng	gths	В	ond ang	gles
	IVIOI	Type	Lype Chain Res	nes	LIIIK	Counts	RMSZ	# Z >2	Counts	RMSZ	# Z >2												
	2	KJW	В	803	2	$7,\!8,\!9$	0.80	0	$7,\!10,\!12$	3.06	4 (57%)												

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	KJW	В	803	2	-	9/9/10/12	-

There are no bond length outliers.

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Ζ	$Observed(^{o})$	$Ideal(^{o})$
2	В	803	KJW	OE-CB-CG	-5.87	97.64	109.89
2	В	803	KJW	CG-CB-CA	3.55	121.48	113.69
2	В	803	KJW	CD2-CG-CB	-2.75	106.72	111.20
2	В	803	KJW	CD1-CG-CB	2.56	115.38	111.20

There are no chirality outliers.

All (9) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	В	803	KJW	C-CA-CB-CG
2	В	803	KJW	N-CA-CB-OE
2	В	803	KJW	CA-CB-CG-CD2
2	В	803	KJW	CA-CB-CG-CD1
2	В	803	KJW	OE-CB-CG-CD2
2	В	803	KJW	OE-CB-CG-CD1
2	В	803	KJW	C-CA-CB-OE
2	В	803	KJW	N-CA-CB-CG
2	В	803	KJW	O-C-CA-CB

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 5 ligands modelled in this entry, 1 is 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



	— ———————————————————————————————————		Der	T 1.	B	Bond lengths			Bond angles		
Mol	• 1	Chain	Res	Link	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z >2	
5	SO4	А	504	-	4,4,4	0.15	0	6,6,6	0.49	0	
5	SO4	А	505	-	4,4,4	0.26	0	6,6,6	0.46	0	
4	OGA	А	502	3	9,9,9	2.37	3 (33%)	10,11,11	2.31	4 (40%)	
5	SO4	А	503	-	4,4,4	0.20	0	6,6,6	0.13	0	

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).

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	OGA	А	502	3	-	1/8/9/9	-

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	А	502	OGA	C2-N1	5.81	1.43	1.33
4	А	502	OGA	O2-C1	-2.14	1.24	1.30
4	А	502	OGA	C2-C1	-2.13	1.51	1.54

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
4	А	502	OGA	O2-C1-C2	4.85	127.43	113.15
4	А	502	OGA	O1-C1-C2	-3.35	114.71	122.18
4	А	502	OGA	O2'-C2-C1	2.53	124.88	121.32
4	А	502	OGA	O2-C1-O1	-2.53	117.83	123.61

There are no chirality outliers.

All (1) torsion outliers are listed below:

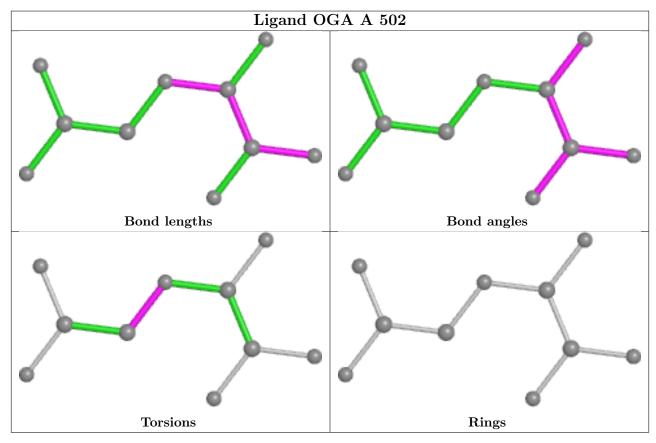
Ν	/lol	Chain	Res	Type	Atoms
	4	А	502	OGA	C5-C4-N1-C2

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 sufficient 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	$\langle RSRZ \rangle$	# RSRZ > 2	$\mathbf{OWAB}(\mathbf{A}^2)$	Q<0.9
1	А	349/349~(100%)	0.61	28 (8%) 12 11	50, 75, 128, 159	16 (4%)
2	В	14/15~(93%)	1.67	5 (35%) 0 0	69, 100, 114, 122	1 (7%)
All	All	363/364~(99%)	0.65	33 (9%) 9 8	50, 76, 128, 159	17 (4%)

All (33) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	А	114	PHE	7.1
1	А	102	TYR	5.0
1	А	118	SER	5.0
1	А	349	ASN	4.2
1	А	162	PHE	4.2
1	А	2	ALA	3.9
1	А	117	ARG	3.6
1	А	103	TYR	3.5
1	А	5	ALA	3.3
1	А	90	PHE	3.3
1	А	146	LEU	3.2
1	А	85	ILE	3.1
1	А	6	ALA	2.8
1	А	140	GLY	2.8
2	В	802	VAL	2.8
1	А	32	LEU	2.8
1	А	101	LEU	2.8
1	А	8	ALA	2.7
1	А	21	GLY	2.6
2	В	800	ALA	2.6
1	А	92	VAL	2.4
1	А	4	THR	2.4
1	А	1	MET	2.4
1	А	128	PHE	2.4



	v	-	1 5	
Mol	Chain	\mathbf{Res}	Type	RSRZ
2	В	801	ASP	2.4
1	А	93	TYR	2.2
2	В	791	VAL	2.2
1	А	123	MET	2.1
1	А	119	ASN	2.1
2	В	799	GLY	2.1
1	А	14	GLY	2.1
1	А	181	GLN	2.1
1	А	135	ILE	2.0

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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	$\mathbf{B} ext{-factors}(\mathbf{A}^2)$	Q<0.9
2	KJW	В	803	9/10	0.91	0.18	47,87,92,98	0

6.3 Carbohydrates (i)

There are no monosaccharides in this entry.

6.4 Ligands (i)

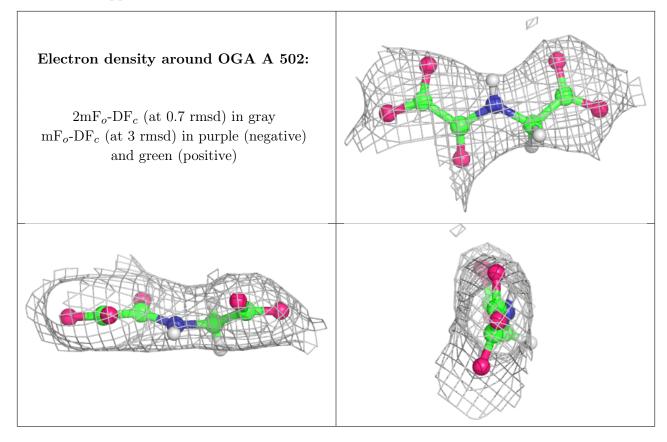
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	$B-factors(Å^2)$	Q<0.9
5	SO4	А	503	5/5	0.60	0.16	$185,\!185,\!185,\!185$	0
5	SO4	А	505	5/5	0.65	0.20	164,164,164,164	0
5	SO4	А	504	5/5	0.75	0.24	127,127,127,127	0
4	OGA	А	502	10/10	0.98	0.20	58, 58, 58, 58	0
3	ZN	А	501	1/1	1.00	0.20	58, 58, 58, 58	0

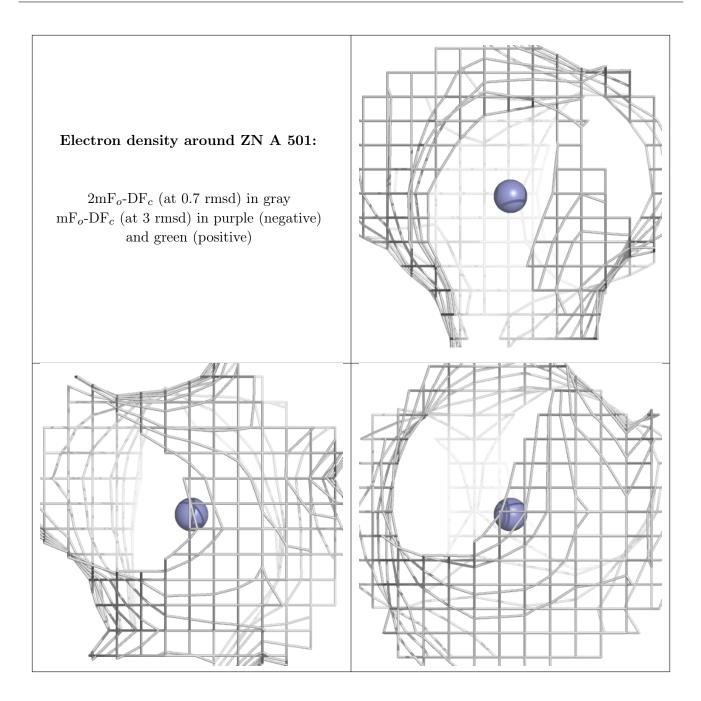
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different



orientation to approximate a three-dimensional view.







6.5 Other polymers (i)

There are no such residues in this entry.

