

Full wwPDB X-ray Structure Validation Report (i)

Oct 9, 2023 – 11:43 PM EDT

PDB ID	:	7MR7
Title	:	Crystal structure of the first bromodomain (BD1) of human BRD4 bound to
		GXH-II-075
Authors	:	Chan, A.; Schonbrunn, E.
Deposited on		
Resolution	:	1.40 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:

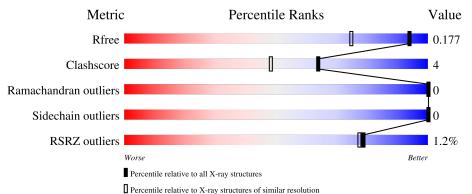
MolProbity	:	4.02b-467 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)		
EDS	:	2.35.1
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.35.1

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 1.40 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	1714(1.40-1.40)
Clashscore	141614	1812 (1.40-1.40)
Ramachandran outliers	138981	1763 (1.40-1.40)
Sidechain outliers	138945	1762 (1.40-1.40)
RSRZ outliers	127900	1674 (1.40-1.40)

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	127	% • 92%	7%						
1	В	127	^{2%} 89%	9% •	-					



7MR7

2 Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 2433 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.

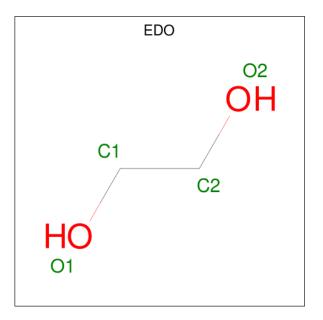
• Molecule 1 is a protein called Bromodomain-containing protein 4.

Mol	Chain	Residues		At	oms			ZeroOcc	AltConf	Trace
1	А	126	Total	-		0	\mathbf{S}	0	0	0
1	11	120	1052	682	173	190	7	0		0
1	Р	125	Total	С	Ν	Ο	\mathbf{S}	0	0	0
	D	120	1046	679	172	188	7	0		

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	42	SER	-	expression tag	UNP O60885
А	43	MET	-	expression tag	UNP O60885
В	42	SER	-	expression tag	UNP O60885
В	43	MET	-	expression tag	UNP O60885

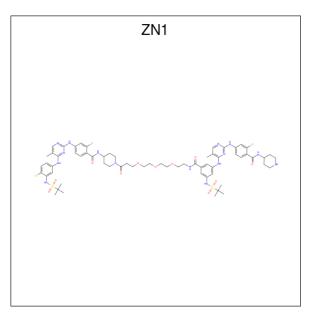
• Molecule 2 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: $C_2H_6O_2$).





Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	А	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 4 & 2 & 2 \end{array}$	0	0
2	В	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 4 & 2 & 2 \end{array}$	0	0
2	В	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 4 & 2 & 2 \end{array}$	0	0

• Molecule 3 is 4-[(4-{4-chloro-3-[(2-methylpropane-2-sulfonyl)amino]anilino}-5-methylpyrimi din-2-yl)amino]-2-fluoro-N-[1-(14-{3-[(2-{3-fluoro-4-[(piperidin-4-yl)carbamoyl]anilino}-5-methylpyrimidin-4-yl)amino]-5-[(2-methylpropane-2-sulfonyl)amino]phenyl}-14-oxo-4,7,10-tr ioxa-13-azatetradecanan-1-oyl)piperidin-4-yl]benzamide (three-letter code: ZN1) (formula: $C_{64}H_{82}ClF_2N_{15}O_{11}S_2$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf		
3	А	1	Total 95	C 64		F 2	N 15	0 11	S 2	0	0

• Molecule 4 is water.

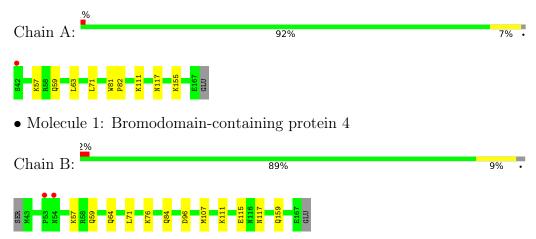
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	А	107	Total O 107 107	0	0
4	В	121	Total O 121 121	0	0



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: Bromodomain-containing protein 4





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1	Depositor
$\begin{array}{c} \text{Cell constants} \\ \text{a, b, c, } \alpha, \beta, \gamma \end{array}$	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	Depositor
Resolution (Å)	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	Depositor EDS
% Data completeness (in resolution range)	$90.4 (39.24-1.40) \\ 66.8 (39.24-1.19)$	Depositor EDS
R _{merge}	0.04	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$1.18 (at 1.19 \text{\AA})$	Xtriage
Refinement program	PHENIX 1.18.2-3874_3874	Depositor
R, R_{free}	$\begin{array}{rrrr} 0.176 & , & 0.194 \\ 0.177 & , & 0.177 \end{array}$	Depositor DCC
R_{free} test set	2694 reflections $(4.91%)$	wwPDB-VP
Wilson B-factor $(Å^2)$	14.3	Xtriage
Anisotropy	0.257	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.34 , 40.0	EDS
L-test for $twinning^2$	$< L >=0.48, < L^2>=0.31$	Xtriage
Estimated twinning fraction	0.046 for h,-k,-h-l	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	2433	wwPDB-VP
Average B, all atoms $(Å^2)$	20.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 11.28% 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: ZN1, 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		
	Unam	$\operatorname{RMSZ} \# Z >$		RMSZ	# Z > 5	
1	А	0.36	0/1082	0.63	0/1472	
1	В	0.43	0/1076	0.68	1/1464~(0.1%)	
All	All	0.40	0/2158	0.66	1/2936~(0.0%)	

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
1	В	71	LEU	CA-CB-CG	-5.93	101.66	115.30

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	1052	0	1050	9	0
1	В	1046	0	1045	8	0
2	А	4	0	6	0	0
2	В	8	0	12	0	0
3	А	95	0	0	1	0
4	А	107	0	0	1	1
4	В	121	0	0	5	1
All	All	2433	0	2113	18	1



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 4.

All (18) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:76:LYS:NZ	4:B:302:HOH:O	2.23	0.70
1:B:57:LYS:HG2	1:B:117:ASN:HB2	1.85	0.59
1:A:57:LYS:HD2	1:A:117:ASN:HB2	1.86	0.57
1:B:59:GLN:OE1	1:B:64:GLN:HG3	2.06	0.56
1:A:57:LYS:HD2	1:A:117:ASN:O	2.11	0.51
1:A:81:TRP:CD2	1:A:82:PRO:HD3	2.48	0.49
1:B:96:ASP:OD2	4:B:301:HOH:O	2.20	0.47
1:A:59:GLN:HE22	1:A:63:LEU:CB	2.28	0.45
1:B:84:GLN:HA	1:B:107:MET:HB2	1.98	0.45
1:A:155:LYS:HE2	4:B:359:HOH:O	2.15	0.45
1:A:59:GLN:NE2	1:A:63:LEU:HB2	2.32	0.44
1:A:81:TRP:CG	1:A:82:PRO:HD3	2.53	0.44
1:A:59:GLN:HE22	1:A:63:LEU:HB2	1.82	0.43
1:A:71:LEU:HD21	1:A:111:LYS:HB2	2.00	0.42
1:B:111:LYS:O	1:B:115:GLU:HG3	2.19	0.42
1:B:117:ASN:ND2	4:B:303:HOH:O	2.45	0.42
3:A:302:ZN1:O03	4:A:401:HOH:O	2.22	0.41
1:B:159:GLN:NE2	4:B:307:HOH:O	2.54	0.41

All (1) 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:490:HOH:O	4:B:314:HOH:O[1_554]	2.07	0.13

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	124/127~(98%)	123~(99%)	1 (1%)	0	100	100
1	В	123/127~(97%)	122~(99%)	1 (1%)	0	100	100
All	All	247/254~(97%)	245~(99%)	2(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	А	119/120~(99%)	119 (100%)	0	100 100		
1	В	118/120~(98%)	118 (100%)	0	100 100		
All	All	237/240~(99%)	237~(100%)	0	100 100		

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

Sometimes side chains can be flipped to improve hydrogen bonding and reduce clashes. All (4) such side chains are listed below:

Mol	Chain	Res	Type
1	А	59	GLN
1	А	127	GLN
1	А	130	ASN
1	В	159	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)

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

4 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	Type	Chain	Res	Tiple	Link Bond lengths			Bond angles			
NIOI	туре	Chain	nes	LIIIK	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2	
2	EDO	А	301	-	$3,\!3,\!3$	0.40	0	2,2,2	0.56	0	
2	EDO	В	201	-	3,3,3	0.49	0	2,2,2	0.31	0	
2	EDO	В	202	-	3,3,3	0.46	0	2,2,2	0.52	0	
3	ZN1	А	302	-	102,102,102	2.27	23 (22%)	141,146,146	2.08	27 (19%)	

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	EDO	А	301	-	-	0/1/1/1	-
2	EDO	В	201	-	-	0/1/1/1	-
2	EDO	В	202	-	-	0/1/1/1	-
3	ZN1	А	302	-	-	16/83/101/101	0/8/8/8

All (23) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	$\mathrm{Ideal}(\mathrm{\AA})$
3	А	302	ZN1	S02-N09	10.35	1.73	1.59
3	А	302	ZN1	S01-N05	7.59	1.70	1.59
3	А	302	ZN1	C51-N14	6.01	1.47	1.34
3	А	302	ZN1	C29-N08	5.42	1.45	1.33
3	А	302	ZN1	C41-N13	5.34	1.47	1.36
3	А	302	ZN1	C28-N07	5.15	1.45	1.35
3	А	302	ZN1	C22-N06	4.89	1.44	1.34

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Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\operatorname{Observed}(\operatorname{\AA})$	Ideal(Å)
3	А	302	ZN1	C40-N10	4.80	1.45	1.36
3	А	302	ZN1	C07-N01	4.41	1.44	1.36
3	А	302	ZN1	C34-N09	4.10	1.49	1.43
3	А	302	ZN1	C10-N04	3.51	1.43	1.36
3	А	302	ZN1	C45-N13	3.28	1.48	1.40
3	А	302	ZN1	C32-N10	2.97	1.47	1.40
3	А	302	ZN1	C36-S02	2.69	1.83	1.81
3	А	302	ZN1	O06-S02	2.60	1.48	1.43
3	А	302	ZN1	C41-N12	-2.59	1.31	1.34
3	А	302	ZN1	O01-S01	2.43	1.47	1.43
3	А	302	ZN1	O05-C29	-2.30	1.18	1.23
3	А	302	ZN1	O03-C22	-2.29	1.18	1.23
3	А	302	ZN1	C48-C51	2.27	1.54	1.50
3	А	302	ZN1	C43-C40	-2.21	1.38	1.41
3	А	302	ZN1	O08-C51	-2.20	1.18	1.23
3	А	302	ZN1	O07-S02	2.16	1.47	1.43

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All (27) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Ζ	$Observed(^{o})$	$Ideal(^{o})$
3	А	302	ZN1	O07-S02-O06	-9.56	101.17	120.57
3	А	302	ZN1	O06-S02-C36	7.59	113.69	107.60
3	А	302	ZN1	C43-C42-N12	-6.63	118.33	125.11
3	А	302	ZN1	O02-S01-O01	-6.61	107.16	120.57
3	А	302	ZN1	C08-C09-N02	-6.25	118.72	125.11
3	А	302	ZN1	C24-C25-N07	5.41	119.05	110.82
3	А	302	ZN1	O02-S01-C18	3.90	110.73	107.60
3	А	302	ZN1	C47-C48-C49	3.82	121.01	116.67
3	А	302	ZN1	O01-S01-C18	3.55	110.45	107.60
3	А	302	ZN1	C23-N06-C22	-3.50	117.70	122.55
3	А	302	ZN1	C04-C05-N05	-3.42	117.56	120.74
3	А	302	ZN1	C50-C49-C48	-3.34	119.97	123.53
3	А	302	ZN1	N12-C41-N11	-3.33	123.39	126.55
3	А	302	ZN1	C42-N12-C41	3.24	120.77	115.88
3	А	302	ZN1	C14-C15-C16	3.23	120.34	116.67
3	А	302	ZN1	C09-N02-C10	3.20	120.71	115.88
3	А	302	ZN1	C25-C24-C23	3.18	116.09	110.50
3	А	302	ZN1	C43-C40-N11	-2.82	120.15	123.37
3	А	302	ZN1	N02-C10-N03	-2.79	123.90	126.55
3	А	302	ZN1	C49-C48-C51	-2.66	118.95	125.09
3	А	302	ZN1	C36-S02-N09	2.65	112.14	107.08
3	А	302	ZN1	O02-S01-N05	2.38	113.72	109.42

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Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
3	А	302	ZN1	O04-C28-N07	-2.34	117.50	122.05
3	А	302	ZN1	C01-N01-C07	-2.32	123.56	129.39
3	А	302	ZN1	C06-C05-C04	2.31	120.57	118.17
3	А	302	ZN1	C48-C51-N14	2.17	120.82	116.80
3	А	302	ZN1	C12-C17-C16	-2.10	117.03	118.76

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There are no chirality outliers.

Mol	Chain	Res	Type	Atoms
3	А	302	ZN1	O11-C63-C64-N08
3	А	302	ZN1	O10-C61-C62-O11
3	А	302	ZN1	O09-C59-C60-O10
3	А	302	ZN1	C49-C48-C51-N14
3	А	302	ZN1	C49-C48-C51-O08
3	А	302	ZN1	C61-C62-O11-C63
3	А	302	ZN1	C59-C60-O10-C61
3	А	302	ZN1	C05-N05-S01-O01
3	А	302	ZN1	C60-C59-O09-C58
3	А	302	ZN1	C62-C61-O10-C60
3	А	302	ZN1	C64-C63-O11-C62
3	А	302	ZN1	C57-C58-O09-C59
3	А	302	ZN1	C47-C48-C51-O08
3	А	302	ZN1	C53-C52-N14-C51
3	А	302	ZN1	C47-C48-C51-N14
3	А	302	ZN1	C56-C52-N14-C51

All (16) torsion outliers are listed below:

There are no ring outliers.

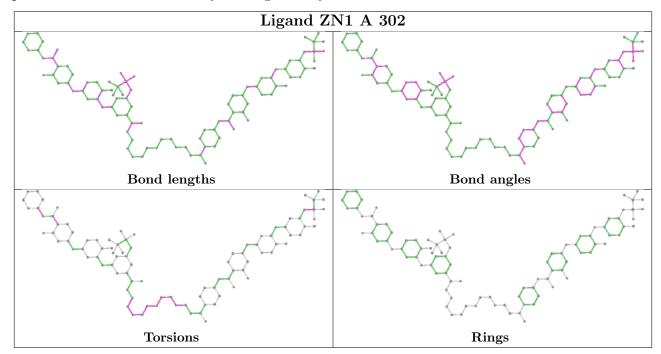
1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	А	302	ZN1	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	$\langle RSRZ \rangle$	#RSRZ>2	$OWAB(Å^2)$	Q < 0.9
1	А	126/127~(99%)	-0.28	1 (0%) 86 84	12, 18, 31, 50	0
1	В	125/127~(98%)	-0.34	2 (1%) 72 71	11, 17, 29, 43	0
All	All	251/254~(98%)	-0.31	3 (1%) 79 77	11, 18, 31, 50	0

All (3) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	А	42	SER	2.3
1	В	54	ASN	2.3
1	В	53	PRO	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)

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	$\mathbf{B} ext{-factors}(\mathrm{\AA}^2)$	Q < 0.9
2	EDO	В	202	4/4	0.93	0.08	$19,\!21,\!22,\!24$	0
3	ZN1	А	302	95/95	0.94	0.12	$10,\!23,\!50,\!54$	0

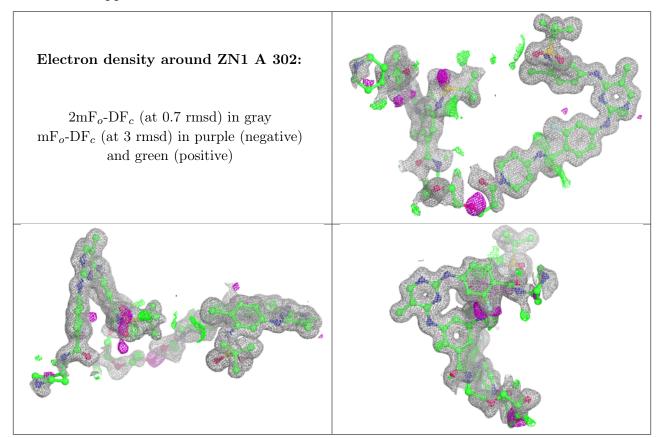
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-factors}(\mathrm{\AA}^2)$	Q<0.9
2	EDO	В	201	4/4	0.95	0.08	$15,\!20,\!23,\!28$	0
2	EDO	А	301	4/4	0.97	0.07	16,19,21,24	0

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.

