

Full wwPDB X-ray Structure Validation Report (i)

Aug 6, 2020 – 12:56 PM BST

PDB ID	:	4PYV
Title	:	Crystal structure of renin in complex with compound4
Authors	:	Ostermann, N.; Zink, F.
Deposited on		
Resolution	:	2.65 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:

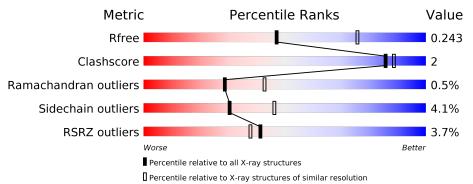
MolProbity Mogul Xtriage (Phenix) EDS buster-report	:	4.02b-467 1.8.5 (274361), CSD as541be (2020) 1.13 2.13.1 1.1.7 (2018)
Percentile statistics		20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
$\operatorname{CCP4}$:	$7.0.044 (\mathrm{Gargrove})$
Ideal geometry (proteins)	:	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 2.65 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	$egin{array}{c} { m Whole \ archive} \ (\#{ m Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries},{ m resolution\ range}({ m \AA}))$
R _{free}	130704	1332(2.68-2.64)
Clashscore	141614	1374(2.68-2.64)
Ramachandran outliers	138981	1349(2.68-2.64)
Sidechain outliers	138945	1349 (2.68-2.64)
RSRZ outliers	127900	1318 (2.68-2.64)

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		
1	А	340	90%	8%	·
1	В	340	2% 8 9%	8%	•••



2 Entry composition (i)

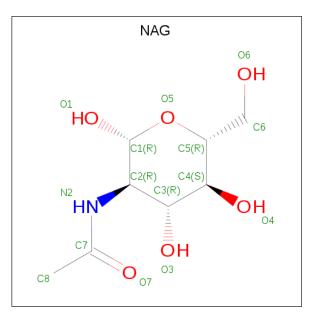
There are 6 unique types of molecules in this entry. The entry contains 5375 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 Renin.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1	Δ	335	Total	С	Ν	Ο	\mathbf{S}	0	0	0
	А	000	2578	1648	417	499	14	0	0	0
1	В	334	Total	С	Ν	Ο	S	0	0	0
	D	004	2570	1642	416	498	14	0	U	0

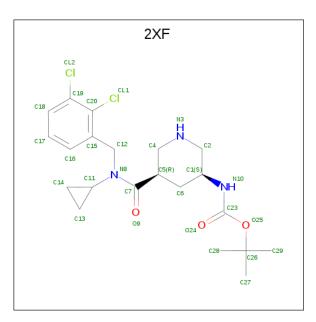
• Molecule 2 is 2-acetamido-2-deoxy-beta-D-glucopyranose (three-letter code: NAG) (formula: $C_8H_{15}NO_6$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	А	1	Total 14	C 8	N 1	${ m O} 5$	0	0

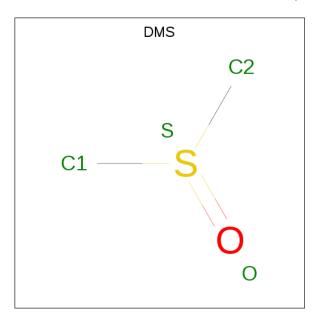
• Molecule 3 is tert-butyl {(3S,5R)-5-[cyclopropyl(2,3-dichlorobenzyl)carbamoyl]piperidin-3-y l}carbamate (three-letter code: 2XF) (formula: $C_{21}H_{29}Cl_2N_3O_3$).





Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	
3	Λ	1	Total	С	Cl	Ν	0	0	0
0	Л	I	29	21	2	3	3	0	0
2	р	1	Total	С	Cl	Ν	Ο	0	0
J	D	T	29	21	2	3	3	0	0

• Molecule 4 is DIMETHYL SULFOXIDE (three-letter code: DMS) (formula: C_2H_6OS).

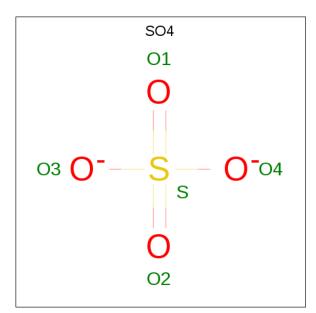


Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	А	1	Total C O S 4 2 1 1	0	0
4	В	1	Total C O S 4 2 1 1	0	0

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Mol	Chain	Residues	A	ton	ıs		ZeroOcc	AltConf
4	В	1	Total 4	$\begin{array}{c} \mathrm{C} \\ 2 \end{array}$	0 1	${ m S}$ 1	0	0

• Molecule 5 is SULFATE ION (three-letter code: SO4) (formula: O_4S).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	А	1	Total 5	0 4	S 1	0	0

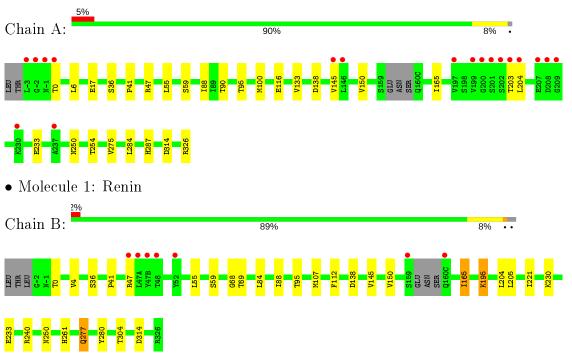
• Molecule 6 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	А	61	Total O 61 61	0	0
6	В	77	Total O 77 77	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: Renin



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 3	Depositor
Cell constants	141.90Å 141.90Å 141.90Å	Deperitor
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	42.78 - 2.65	Depositor
Resolution (A)	40.96 - 2.65	EDS
% Data completeness	99.5 (42.78-2.65)	Depositor
(in resolution range)	$99.6 \ (40.96 - 2.65)$	EDS
R _{merge}	(Not available)	Depositor
R _{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$2.16 (at 2.65 \text{\AA})$	Xtriage
Refinement program	BUSTER 2.11.4	Depositor
D D	0.201 , 0.241	Depositor
R, R_{free}	0.201 , 0.243	DCC
R_{free} test set	2781 reflections (10.01%)	wwPDB-VP
Wilson B-factor $(Å^2)$	62.9	Xtriage
Anisotropy	0.000	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.34 , 54.2	EDS
L-test for twinning ²	$< L >=0.50, < L^2>=0.34$	Xtriage
Estimated twinning fraction	0.023 for l,-k,h	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	5375	wwPDB-VP
Average B, all atoms $(Å^2)$	66.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 3.10% 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, DMS, NAG, 2XF

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		
	Cham	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	А	0.51	0/2637	0.72	0/3575	
1	В	0.52	0/2629	0.72	0/3564	
All	All	0.52	0/5266	0.72	0/7139	

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	А	2578	0	2510	7	0
1	В	2570	0	2500	15	0
2	А	14	0	13	0	0
3	А	29	0	29	0	0
3	В	29	0	29	1	0
4	А	4	0	6	0	0
4	В	8	0	12	0	0
5	А	5	0	0	0	0
6	А	61	0	0	0	0
6	В	77	0	0	0	0
All	All	5375	0	5099	23	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 (23) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom 1		Interatomic	Clash
Atom-1	Atom-2	${ m distance}~({ m \AA})$	overlap (Å)
1:B:195:LYS:HD3	1:B:261:HIS:HD2	1.47	0.80
1:B:195:LYS:HD3	1:B:261:HIS:CD2	2.20	0.76
1:B:277:GLN:HG2	1:B:280:TYR:CE2	2.21	0.75
1:B:4:VAL:HB	1:B:165:ILE:HG23	1.74	0.70
1:B:277:GLN:HG2	1:B:280:TYR:CZ	2.30	0.67
1:B:150:VAL:HG12	1:B:314:ASP:HA	1.82	0.61
1:A:6:LEU:HD21	1:A:165:ILE:HD12	1.90	0.53
1:B:107:MET:HE3	1:B:112:PHE:HB3	1.90	0.51
1:A:275:VAL:HG22	1:A:284:LEU:HD22	1.92	0.50
1:B:195:LYS:HB2	1:B:261:HIS:CD2	2.46	0.49
1:B:0:THR:HB	1:B:145:VAL:O	2.12	0.49
1:A:0:THR:HB	1:A:145:VAL:O	2.14	0.47
1:A:88:ILE:HG23	1:A:95:THR:HG23	1.98	0.46
1:A:41:PRO:HB2	1:A:55:LEU:HD23	1.98	0.46
1:A:150:VAL:HG12	1:A:314:ASP:HA	1.98	0.45
1:B:88:ILE:HG23	1:B:95:THR:HG23	1.99	0.45
3:B:1000:2XF:H8	3:B:1000:2XF:C14	2.46	0.45
1:B:41:PRO:HB2	1:B:55:LEU:HD23	2.00	0.44
1:B:69:THR:HB	1:B:84:LEU:HD12	2.00	0.44
1:B:195:LYS:HB2	1:B:261:HIS:HD2	1.84	0.42
1:A:100:MET:HB3	1:A:133:VAL:CG1	2.49	0.42
1:B:221:ILE:HG13	1:B:304:THR:HB	2.01	0.42
1:B:205:LEU:HD21	1:B:230:LYS:HB2	2.03	0.41

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	Perce	entiles
1	А	331/340~(97%)	325~(98%)	5(2%)	1 (0%)	41	56
1	В	330/340~(97%)	325~(98%)	3 (1%)	2(1%)	25	37
All	All	661/680~(97%)	650 (98%)	8 (1%)	3~(0%)	29	43

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	В	240	ARG
1	А	203	THR
1	В	68	GLY

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	283/290~(98%)	270~(95%)	13~(5%)	27 41
1	В	282/290 (97%)	272~(96%)	10 (4%)	36 52
All	All	565/580~(97%)	542~(96%)	23~(4%)	30 46

All (23) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	А	17	GLU
1	А	36	SER
1	А	47	ARG
1	А	59	SER
1	А	90	THR
1	А	116	GLU
1	А	138	ASP
1	А	204	LEU
1	А	233	GLU
1	А	250	ASN
1	А	254	THR
1	А	287	HIS
1	А	326	ARG



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Mol	Chain	\mathbf{Res}	Type							
1	В	36	SER							
1	В	47	ARG							
1	В	59	SER							
1	В	138	ASP							
1	В	165	ILE							
1	В	195	LYS							
1	В	204	LEU							
1	В	233	GLU							
1	В	250	ASN							
1	В	277	GLN							

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Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (6) such sidechains are listed below:

Mol	Chain	Res	Type
1	А	86	GLN
1	А	250	ASN
1	А	318	ASN
1	В	250	ASN
1	В	277	GLN
1	В	318	ASN

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)

7 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	Turne	Chain	Res	Link	Bo	ond leng	ths	В	ond ang	gles
	Type	Cham	nes	LIIIK	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	2XF	В	1000	-	$29,\!31,\!31$	1.35	3 (10%)	$38,\!45,\!45$	2.05	15 (39%)
2	NAG	А	1000	1	14, 14, 15	0.42	0	$17,\!19,\!21$	0.94	1(5%)
3	2XF	А	1001	-	29,31,31	1.55	6 (20%)	$38,\!45,\!45$	<mark>2.39</mark>	11 (28%)
4	DMS	В	1002	-	3, 3, 3	0.14	0	$3,\!3,\!3$	0.42	0
4	DMS	А	1002	-	3, 3, 3	0.41	0	$3,\!3,\!3$	0.69	0
4	DMS	В	1001	-	3,3,3	0.22	0	3,3,3	0.58	0
5	SO4	А	1003	-	4, 4, 4	0.19	0	$6,\!6,\!6$	0.31	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	\mathbf{Res}	Link	Chirals	Torsions	Rings
3	2XF	В	1000	-	-	2/25/37/37	0/3/3/3
2	NAG	А	1000	1	-	1/6/23/26	0/1/1/1
3	2XF	А	1001	-	_	0/25/37/37	0/3/3/3

Mol	Chain	\mathbf{Res}	Type	Atoms	Z	${f Observed}({ m \AA})$	$\operatorname{Ideal}(\operatorname{\AA})$
3	А	1001	2XF	C13-C11	3.03	1.55	1.48
3	А	1001	2XF	C14-C11	2.91	1.55	1.48
3	В	1000	2XF	C14-C11	2.79	1.54	1.48
3	В	1000	2XF	C13-C11	2.72	1.54	1.48
3	А	1001	2XF	C20-C15	2.48	1.42	1.39
3	А	1001	2XF	C27-C26	2.24	1.57	1.51
3	А	1001	2XF	C28-C26	2.07	1.57	1.51
3	В	1000	2XF	C20-C15	2.05	1.41	1.39
3	А	1001	2XF	C6-C1	2.03	1.56	1.52

All (9) bond length outliers are listed below:

All (27) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^{o})$	$Ideal(^{o})$
3	А	1001	2XF	C15-C12-N8	7.14	123.56	113.34



Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
3	А	1001	2XF	C4-N3-C2	6.18	118.49	111.70
3	В	1000	2XF	O9-C7-C5	-5.34	112.67	120.81
3	А	1001	2XF	O9-C7-C5	-4.32	114.22	120.81
3	В	1000	2XF	C2-C1-N10	3.95	114.97	109.88
3	В	1000	2XF	C26-O25-C23	3.87	126.95	120.99
3	А	1001	2XF	C6-C5-C4	-3.86	106.01	109.69
3	А	1001	2XF	C1-N10-C23	-3.71	116.59	122.30
3	А	1001	2XF	C4-C5-C7	3.60	116.83	110.07
3	В	1000	2XF	C4-N3-C2	3.50	115.55	111.70
3	В	1000	2XF	C4-C5-C7	3.43	116.51	110.07
2	А	1000	NAG	C1-O5-C5	3.11	116.40	112.19
3	А	1001	2XF	C12-C15-C20	-3.05	116.66	121.73
3	В	1000	2XF	C15-C20-CL1	2.88	122.19	119.18
3	В	1000	2XF	C16-C15-C20	2.87	119.46	117.43
3	А	1001	2XF	C6-C1-N10	2.70	114.68	110.57
3	А	1001	2XF	O25-C26-C27	2.52	117.18	107.20
3	В	1000	2XF	C15-C12-N8	2.51	116.93	113.34
3	В	1000	2XF	C6-C5-C7	-2.44	106.07	110.42
3	А	1001	2XF	O25-C23-N10	2.33	113.93	110.02
3	В	1000	2XF	C5-C6-C1	-2.30	108.70	110.82
3	А	1001	2XF	C16-C15-C20	2.29	119.05	117.43
3	В	1000	2XF	C1-N10-C23	-2.27	118.81	122.30
3	В	1000	2XF	O25-C26-C27	2.22	116.00	107.20
3	В	1000	2XF	C20-C19-CL2	-2.14	118.44	120.52
3	В	1000	2XF	C12-C15-C20	-2.13	118.19	121.73
3	В	1000	2XF	C12-N8-C11	2.09	120.52	118.33

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There are no chirality outliers.

All (3) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	А	1000	NAG	O5-C5-C6-O6
3	В	1000	2XF	C27-C26-O25-C23
3	В	1000	2XF	C28-C26-O25-C23

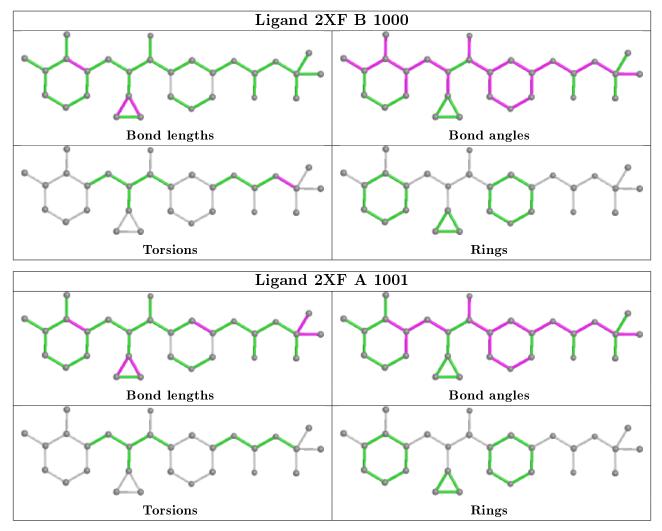
There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	\mathbf{Res}	Type	Clashes	Symm-Clashes
3	В	1000	2XF	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 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	<RSRZ $>$	#RSRZ >2	$\mathbf{OWAB}(\mathrm{\AA}^2)$	Q<0.9
1	А	335/340~(98%)	0.15	18 (5%) 25 23	44, 66, 100, 121	0
1	В	334/340~(98%)	-0.08	7 (2%) 63 59	41, 62, 91, 129	0
All	All	669/680~(98%)	0.04	25 (3%) 41 38	41, 63, 95, 129	0

All (25) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	А	207	GLU	6.5
1	В	47(B)	TYR	6.2
1	А	204	LEU	5.6
1	В	47(A)	LEU	5.3
1	А	-3	LEU	5.3
1	А	208	ASP	4.8
1	А	200	GLY	4.4
1	А	-1	ASN	4.4
1	А	203	THR	4.2
1	В	47	ARG	4.1
1	А	-2	GLY	4.1
1	А	209	GLY	3.7
1	А	202	SER	3.6
1	В	159	SER	3.4
1	А	0	THR	3.3
1	А	230	LYS	3.2
1	А	145	VAL	2.9
1	А	201	SER	2.6
1	А	197	VAL	2.4
1	В	52	TYR	2.3
1	В	$160(\mathrm{C})$	GLN	2.3
1	А	237	ALA	2.2
1	В	48	THR	2.2
1	А	199	VAL	2.1



Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	А	146	LEU	2.0

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.

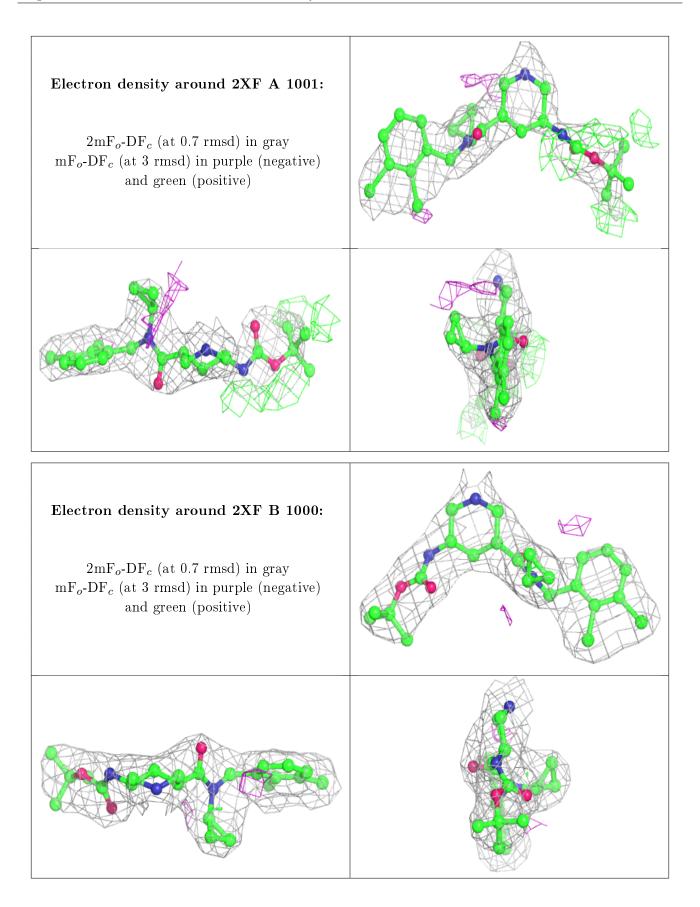
6.4 Ligands (i)

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	$\mathbf{B} ext{-factors}(\mathbf{A}^2)$	Q<0.9
2	NAG	А	1000	14/15	0.86	0.23	83,87,93,97	0
3	2XF	А	1001	29/29	0.87	0.28	$69,\!88,\!99,\!102$	0
5	SO4	А	1003	5/5	0.94	0.22	$101,\!103,\!104,\!105$	0
3	2XF	В	1000	29/29	0.95	0.16	48,60,76,81	0
4	DMS	В	1002	4/4	0.96	0.16	72,75,77,78	0
4	DMS	А	1002	4/4	0.97	0.16	$58,\!63,\!66,\!72$	0
4	DMS	В	1001	4/4	0.98	0.18	$51,\!54,\!54,\!55$	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.

