

Full wwPDB X-ray Structure Validation Report (i)

Sep 24, 2023 – 06:15 AM EDT

PDB ID	:	5U7I
Title	:	PDE2 catalytic domain complexed with inhibitors
Authors	:	Pandit, J.
Deposited on		
Resolution	:	2.00 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:

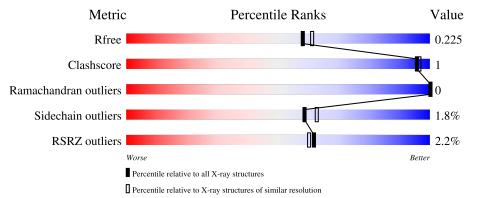
Xtriage (Phenix) EDS buster-report Percentile statistics Refmac CCP4 Ideal geometry (proteins) Ideal geometry (DNA, RNA)	: : : : :	20191225.v01 (using entries in the PDB archive December 25th 2019) 5.8.0158 7.0.044 (Gargrove) Engh & Huber (2001) Parkinson et al. (1996)
Ideal geometry (DNA, RNA) Validation Pipeline (wwPDB-VP)		Parkinson et al. (1996) 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 2.00 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	8085 (2.00-2.00)
Clashscore	141614	9178 (2.00-2.00)
Ramachandran outliers	138981	9054 (2.00-2.00)
Sidechain outliers	138945	9053 (2.00-2.00)
RSRZ outliers	127900	7900 (2.00-2.00)

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	345	% • 96%	•••
1	В	345	3% 92%	6% •
1	С	345	% 91%	• 5%
1	D	345	^{2%} 91%	• 6%



2 Entry composition (i)

There are 5 unique types of molecules in this entry. The entry contains 11926 atoms, of which 100 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.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace	
1	Δ	220	Total	С	Ν	Ο	S	0	1	0
1	А	338	2775	1769	475	506	25	0		0
1	D	336	Total	С	Ν	0	S	0	0	0
	ГБ	990	2751	1753	472	501	25	0		
1	С	327	Total	С	Ν	0	S	0	1	0
		327	2682	1710	461	486	25	0		0
1	1 D	D 204	Total	С	Ν	0	S	0	0	0
	324	2649	1688	457	479	25	0	0	0	

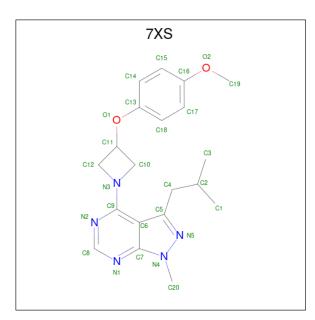
• Molecule 1 is a protein called cGMP-dependent 3',5'-cyclic phosphodiesterase.

There are 16 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
А	575	GLY	-	expression tag	UNP 000408
А	576	SER	-	expression tag	UNP 000408
А	577	ALA	-	expression tag	UNP 000408
A	578	MET	-	expression tag	UNP 000408
В	575	GLY	-	expression tag	UNP 000408
В	576	SER	-	expression tag	UNP 000408
В	577	ALA	-	expression tag	UNP 000408
В	578	MET	-	expression tag	UNP 000408
С	575	GLY	-	expression tag	UNP 000408
С	576	SER	-	expression tag	UNP 000408
С	577	ALA	-	expression tag	UNP 000408
С	578	MET	-	expression tag	UNP 000408
D	575	GLY	-	expression tag	UNP 000408
D	576	SER	-	expression tag	UNP 000408
D	577	ALA	-	expression tag	UNP 000408
D	578	MET	_	expression tag	UNP 000408

• Molecule 2 is 4-[3-(4-methoxyphenoxy)azetidin-1-yl]-1-methyl-3-(2-methylpropyl)-1H-pyraz olo[3,4-d]pyrimidine (three-letter code: 7XS) (formula: $C_{20}H_{25}N_5O_2$).





Mol	Chain	Residues		Ate	oms			ZeroOcc	AltConf
2	Λ	1	Total	С	Η	Ν	Ο	0	0
	Л	1	52	20	25	5	2	0	0
2	В	1	Total	С	Η	Ν	Ο	0	0
	D	1	52	20	25	5	2	0	0
2	С	1	Total	С	Η	Ν	0	0	0
	U	1	52	20	25	5	2	0	0
2	Л	1	Total	С	Η	Ν	0	0	0
	D	1	52	20	25	5	2	0	0

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

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	А	1	Total Zn 1 1	0	0
3	В	1	Total Zn 1 1	0	0
3	С	1	Total Zn 1 1	0	0
3	D	1	Total Zn 1 1	0	0

• Molecule 4 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	А	1	Total Mg 1 1	0	0



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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	В	1	Total Mg 1 1	0	0
4	С	1	Total Mg 1 1	0	0
4	D	1	Total Mg 1 1	0	0

• Molecule 5 is water.

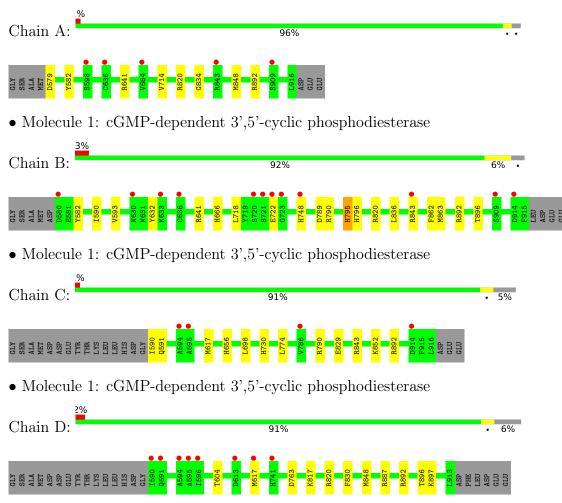
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	А	223	Total O 223 223	0	0
5	В	218	Total O 218 218	0	0
5	С	184	Total O 184 184	0	0
5	D	228	Total O 228 228	0	0



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: cGMP-dependent 3',5'-cyclic phosphodiesterase





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Depositor
$\begin{array}{c} \textbf{a, b, c, a, p, y} \\ \hline \\ \textbf{Resolution (Å)} \end{array}$	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	Depositor EDS
% Data completeness (in resolution range)	$\begin{array}{c} 32.02 & - & 2.00 \\ \hline 96.6 & (34.33-2.00) \\ 96.6 & (32.02-2.00) \end{array}$	Depositor EDS
R _{merge}	0.05	Depositor
R _{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$5.64 (at 2.00 \text{\AA})$	Xtriage
Refinement program	BUSTER 2.11.5	Depositor
R, R_{free}	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	Depositor DCC
R_{free} test set	4424 reflections (5.01%)	wwPDB-VP
Wilson B-factor $(Å^2)$	19.5	Xtriage
Anisotropy	0.252	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.38, 58.4	EDS
L-test for twinning ²	$< L >=0.49, < L^2>=0.32$	Xtriage
Estimated twinning fraction	0.019 for h,-k,-l	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	11926	wwPDB-VP
Average B, all atoms $(Å^2)$	27.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 7.04% 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: ZN, MG, $7\mathrm{XS}$

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		
		RMSZ	# Z > 5	RMSZ	# Z > 5	
1	А	0.46	0/2842	0.57	0/3835	
1	В	0.46	0/2818	0.57	0/3802	
1	С	0.45	0/2747	0.56	0/3706	
1	D	0.45	0/2713	0.55	0/3660	
All	All	0.46	0/11120	0.56	0/15003	

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	2775	0	2719	3	0
1	В	2751	0	2694	8	0
1	С	2682	0	2634	11	0
1	D	2649	0	2606	2	0
2	А	27	25	0	0	0
2	В	27	25	0	0	0
2	С	27	25	0	0	0
2	D	27	25	0	0	0
3	А	1	0	0	0	0



Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	В	1	0	0	0	0
3	С	1	0	0	0	0
3	D	1	0	0	0	0
4	А	1	0	0	0	0
4	В	1	0	0	0	0
4	С	1	0	0	0	0
4	D	1	0	0	0	0
5	А	223	0	0	0	0
5	В	218	0	0	1	0
5	С	184	0	0	2	0
5	D	228	0	0	0	0
All	All	11826	100	10653	23	0

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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 1.

All (23) 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:C:698:LEU:O	1:C:730:HIS:HD2	1.75	0.70
1:C:617:MET:O	1:C:617:MET:HE3	1.93	0.67
1:B:790:ARG:O	1:B:796:HIS:HE1	1.78	0.67
1:C:656:HIS:HD2	1:C:829:GLU:OE2	1.80	0.65
1:B:789:ASP:H	1:B:795:HIS:HD2	1.50	0.59
1:C:656:HIS:HE1	5:C:1235:HOH:O	1.90	0.53
1:B:590:ILE:O	1:C:774:LEU:HD13	2.10	0.51
1:C:590:ILE:HG23	1:C:617:MET:HE1	1.93	0.50
1:A:820:ARG:HH11	1:A:820:ARG:HB3	1.79	0.48
1:A:582:TYR:CE1	1:A:641:ARG:HG3	2.48	0.47
1:C:591:GLN:H	1:C:617:MET:HE2	1.79	0.47
1:C:843:ARG:HH12	1:C:852:LYS:HE2	1.82	0.44
1:B:582:TYR:CE1	1:B:641:ARG:HG3	2.52	0.44
1:C:698:LEU:O	1:C:730:HIS:CD2	2.64	0.44
1:B:632:TYR:HB3	1:B:748:HIS:NE2	2.34	0.43
1:D:604:THR:HG22	1:D:887:ARG:HH22	1.84	0.43
1:C:730:HIS:HE1	5:C:1216:HOH:O	2.01	0.42
1:B:632:TYR:HB3	1:B:748:HIS:CE1	2.54	0.42
1:B:666:HIS:HD2	5:B:1193:HOH:O	2.02	0.42
1:C:590:ILE:HG23	1:C:617:MET:CE	2.49	0.42
1:D:830:PHE:HB3	1:D:848:MET:HG2	2.02	0.41
1:A:834:GLY:HA3	1:A:848:MET:O	2.21	0.40



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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:862:PHE:HD2	1:B:863:MET:HE2	1.86	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	Perce	ntiles
1	А	337/345~(98%)	334 (99%)	3~(1%)	0	100	100
1	В	334/345~(97%)	326~(98%)	8 (2%)	0	100	100
1	\mathbf{C}	326/345~(94%)	321~(98%)	5(2%)	0	100	100
1	D	322/345~(93%)	318~(99%)	4 (1%)	0	100	100
All	All	1319/1380~(96%)	1299 (98%)	20~(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	А	306/310~(99%)	303~(99%)	3~(1%)	76 81		
1	В	303/310~(98%)	294 (97%)	9~(3%)	41 41		
1	С	296/310~(96%)	294 (99%)	2(1%)	84 88		
1	D	292/310~(94%)	285~(98%)	7(2%)	49 51		



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Mol	Chain	Analysed Rotameric O		Outliers	Percentiles
All	All	1197/1240~(96%)	1176~(98%)	21 (2%)	59 63

All (21) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	А	579	ASP
1	А	714	VAL
1	А	892	ARG
1	В	593	VAL
1	В	718	LEU
1	В	722	GLU
1	В	795	HIS
1	В	820	ARG
1	В	836	LEU
1	В	843	ARG
1	В	892	ARG
1	В	896	THR
1	С	790	ARG
1	С	892	ARG
1	D	617	MET
1	D	763	ASP
1	D	817	LYS
1	D	820	ARG
1	D	892	ARG
1	D	896	THR
1	D	897	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (14) such sidechains are listed below:

Mol	Chain	Res	Type
1	А	708	GLN
1	А	911	ASN
1	В	666	HIS
1	В	674	ASN
1	В	708	GLN
1	В	795	HIS
1	В	796	HIS
1	В	911	ASN
1	С	656	HIS
1	С	730	HIS
1	D	627	ASN



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Mol	Chain	Res	Type
1	D	708	GLN
1	D	739	ASN
1	D	911	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)

Of 12 ligands modelled in this entry, 8 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	True Chain Das I		Link	Bond lengths		Bond angles							
	Type	Chain	ani nes	nes	nes	Res		Counts	RMSZ	# Z >2	Counts	RMSZ	# Z > 2
2	7XS	А	1001	-	24,30,30	0.77	1 (4%)	26,43,43	1.24	3 (11%)			
2	7XS	D	1001	-	24,30,30	0.70	1 (4%)	26,43,43	1.23	2 (7%)			
2	7XS	В	1001	-	24,30,30	1.26	2 (8%)	26,43,43	1.20	2(7%)			
2	7XS	С	1001	-	24,30,30	0.75	1 (4%)	26,43,43	1.15	3 (11%)			

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	7XS	А	1001	-	-	0/8/22/22	0/4/4/4
2	7XS	D	1001	-	-	0/8/22/22	0/4/4/4
2	7XS	В	1001	-	-	0/8/22/22	0/4/4/4
2	7XS	С	1001	-	-	0/8/22/22	0/4/4/4

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	В	1001	7XS	C5-N5	-4.59	1.27	1.34
2	А	1001	7XS	C5-N5	-3.00	1.30	1.34
2	С	1001	7XS	C5-N5	-2.58	1.30	1.34
2	D	1001	7XS	C5-N5	-2.53	1.30	1.34
2	В	1001	7XS	C7-N1	-2.13	1.32	1.35

All (10) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Ζ	$Observed(^{o})$	$Ideal(^{o})$
2	В	1001	7XS	C5-N5-N4	4.38	108.26	104.48
2	А	1001	7XS	C5-N5-N4	3.20	107.24	104.48
2	D	1001	7XS	C5-N5-N4	3.10	107.16	104.48
2	С	1001	7XS	C5-N5-N4	3.07	107.12	104.48
2	А	1001	7XS	C10-N3-C9	2.84	134.70	125.64
2	А	1001	7XS	N2-C9-N3	-2.76	111.17	116.99
2	С	1001	7XS	N2-C9-N3	-2.64	111.42	116.99
2	D	1001	7XS	N2-C9-N3	-2.59	111.52	116.99
2	С	1001	7XS	C10-N3-C9	2.18	132.62	125.64
2	В	1001	7XS	N2-C9-N3	-2.02	112.72	116.99

There are no chirality outliers.

There are no torsion outliers.

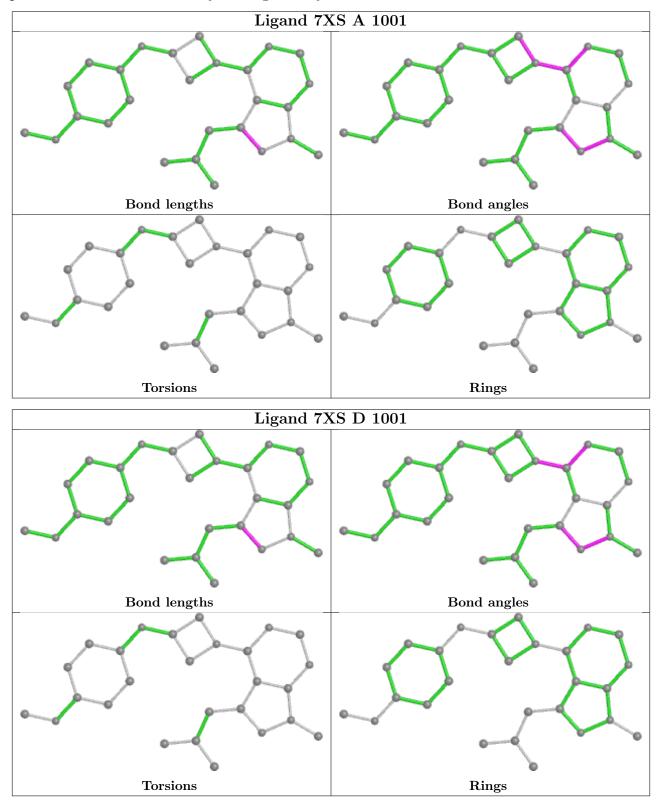
There are no ring outliers.

No monomer is involved in short contacts.

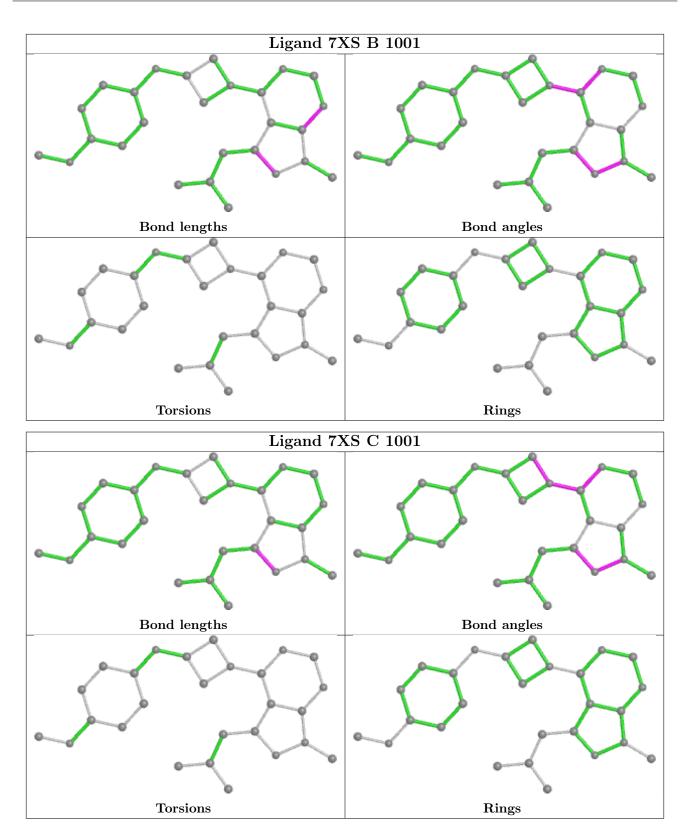
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. 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	$\langle RSRZ \rangle$	#RSRZ>2	$OWAB(Å^2)$	Q<0.9
1	А	338/345~(97%)	-0.09	5 (1%) 73 72	8, 23, 45, 58	0
1	В	336/345~(97%)	0.01	12 (3%) 42 42	10, 25, 45, 64	0
1	С	327/345~(94%)	0.03	4 (1%) 79 78	10, 26, 51, 70	0
1	D	324/345~(93%)	-0.06	8 (2%) 57 56	10, 25, 46, 79	0
All	All	1325/1380~(96%)	-0.03	29 (2%) 62 60	8, 25, 48, 79	0

All (29) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	В	721	SER	5.4
1	D	591	GLN	4.2
1	D	594	ALA	3.9
1	С	594	ALA	3.6
1	А	598	SER	3.5
1	D	595	ALA	3.3
1	В	723	GLY	3.2
1	В	914	ASP	3.0
1	В	630	ASN	2.8
1	С	595	ALA	2.7
1	D	590	ILE	2.7
1	С	786	VAL	2.6
1	А	843	ARG	2.6
1	D	596	ILE	2.6
1	D	741	HIS	2.5
1	В	722	GLU	2.5
1	В	843	ARG	2.4
1	А	909	SER	2.3
1	С	914	ASP	2.2
1	В	636	CYS	2.2
1	В	720	SER	2.2



Mol	Chain	Res	Type	RSRZ
1	В	909	SER	2.1
1	D	617	MET	2.1
1	А	636	CYS	2.1
1	D	613	ASP	2.1
1	А	664	VAL	2.1
1	В	633	LYS	2.0
1	В	748	HIS	2.0
1	В	580	ASP	2.0

Continued from previous page...

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)

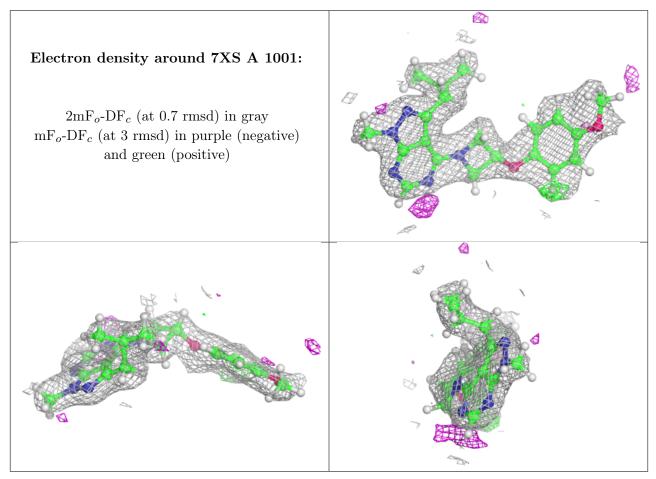
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9'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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	$B-factors(Å^2)$	Q<0.9
2	7XS	А	1001	27/27	0.88	0.16	22,26,48,48	0
2	7XS	В	1001	27/27	0.89	0.14	22,25,48,48	0
2	7XS	D	1001	27/27	0.89	0.17	17,26,40,41	0
2	7XS	С	1001	27/27	0.90	0.15	22,27,41,42	0
4	MG	С	1003	1/1	0.97	0.06	8,8,8,8	0
4	MG	А	1003	1/1	0.98	0.08	3,3,3,3	0
4	MG	D	1003	1/1	0.98	0.07	6,6,6,6	0
3	ZN	А	1002	1/1	0.99	0.07	18,18,18,18	0
3	ZN	В	1002	1/1	1.00	0.07	16, 16, 16, 16	0
4	MG	В	1003	1/1	1.00	0.05	6, 6, 6, 6	0
3	ZN	С	1002	1/1	1.00	0.09	$17,\!17,\!17,\!17$	0
3	ZN	D	1002	1/1	1.00	0.09	16,16,16,16	0

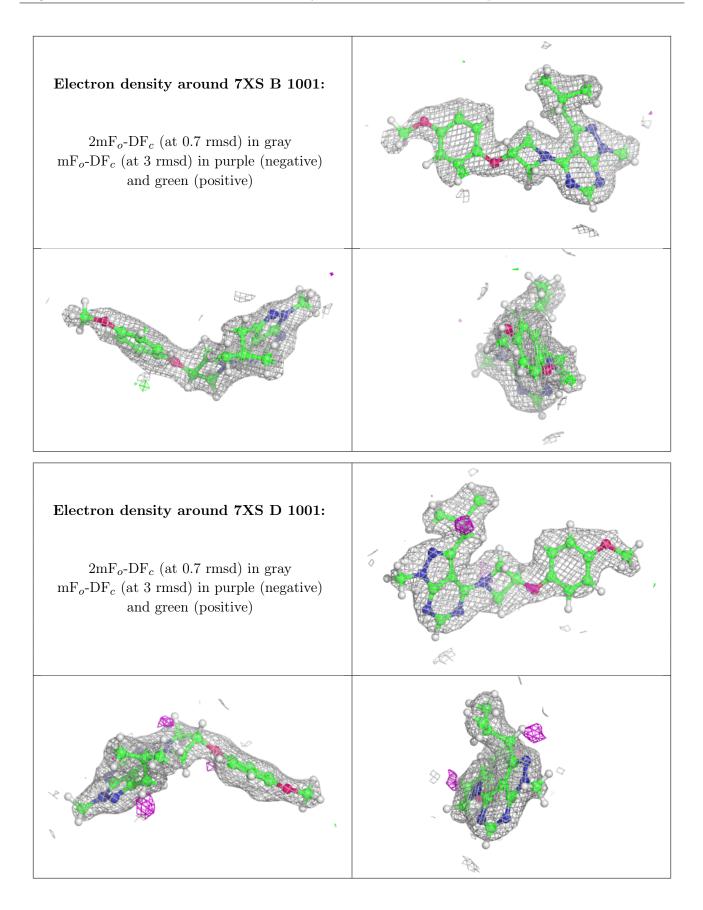
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers



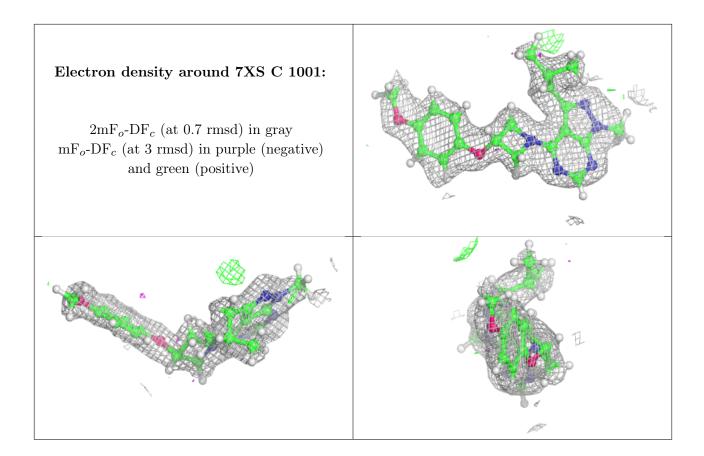
as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.











6.5 Other polymers (i)

There are no such residues in this entry.

