

Full wwPDB X-ray Structure Validation Report (i)

Apr 28, 2024 – 10:12 pm BST

PDB ID : 4ZJJ

Title: PAK1 in complex with (S)-N-(tert-butyl)-3-((2-chloro-5-ethyl-8-fluoro-dibenz

odiazepin-11-yl)amino)pyrrolidine-1-carboxamide

Authors: Gutmann, S.; Rummel, G.

Deposited on : 2015-04-29

Resolution : 2.20 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

Mogul : 1.8.4, CSD as541be (2020)

Xtriage (Phenix) : 1.13

EDS : 2.36.2

buster-report : 1.1.7 (2018)

Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)

 $Refmac \quad : \quad 5.8.0158$

CCP4 : 7.0.044 (Gargrove)

Ideal geometry (proteins) : Engh & Huber (2001) Ideal geometry (DNA, RNA) : Parkinson et al. (1996)

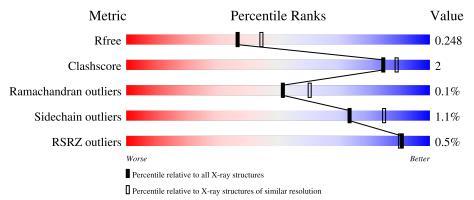
Validation Pipeline (wwPDB-VP) : 2.36.2

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 2.20 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	4898 (2.20-2.20)
Clashscore	141614	5594 (2.20-2.20)
Ramachandran outliers	138981	5503 (2.20-2.20)
Sidechain outliers	138945	5504 (2.20-2.20)
RSRZ outliers	127900	4800 (2.20-2.20)

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	A	299	89%	5%	6%
1	В	299	87%	5% •	7%
1	С	299	84%	8%	8%
1	D	299	86%	6%	8%



2 Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 9072 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 Serine/threonine-protein kinase PAK 1.

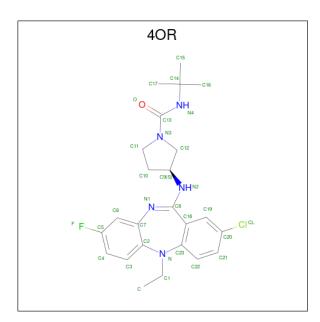
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	Λ	280	Total	С	N	О	S	0	1	
1	A	200	2126	1351	352	406	17	U	1	
1	В	277	Total	С	N	О	S	0	1	0
1	Б	211	2049	1306	335	391	17	U	1	
1	C	276	Total	С	N	О	S	0	0	0
1		210	2012	1276	339	384	13	U	0	
1	D	274	Total	С	N	О	S	0	1	0
1	ע	214	1990	1261	338	376	15	U	1	

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	247	GLY	-	expression tag	UNP Q13153
A	248	PRO	-	expression tag	UNP Q13153
В	247	GLY	-	expression tag	UNP Q13153
В	248	PRO	-	expression tag	UNP Q13153
С	247	GLY	-	expression tag	UNP Q13153
С	248	PRO	-	expression tag	UNP Q13153
D	247	GLY	-	expression tag	UNP Q13153
D	248	PRO	-	expression tag	UNP Q13153

• Molecule 2 is (S)-N-(tert-butyl)-3-((2-chloro-5-ethyl-8-fluoro-dibenzodiazepin-11-yl)amino)p yrrolidine-1-carboxamide (three-letter code: 4OR) (formula: C₂₄H₂₉ClFN₅O).





Mol	Chain	Residues		Atoms				ZeroOcc	AltConf		
2	A	1		С	Cl	F	N	О	0	0	
	71	1	32	24	1	1	5	1	Ŭ.	Ŭ	
$\frac{1}{2}$	В	1	Total	\mathbf{C}	Cl	F	Ν	O	0	0	
	D	1	32	24	1	1	5	1	0		
2	C	1	Total	С	Cl	F	Ν	O	0	0	
		1	32	24	1	1	5	1	0	0	
9	D	1	Total	С	Cl	F	N	О	0	0	
	2 D	1	32	24	1	1	5	1		U	

• Molecule 3 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

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

• Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	227	Total O 227 227	0	0
4	В	145	Total O 145 145	0	0
4	С	212	Total O 212 212	0	0

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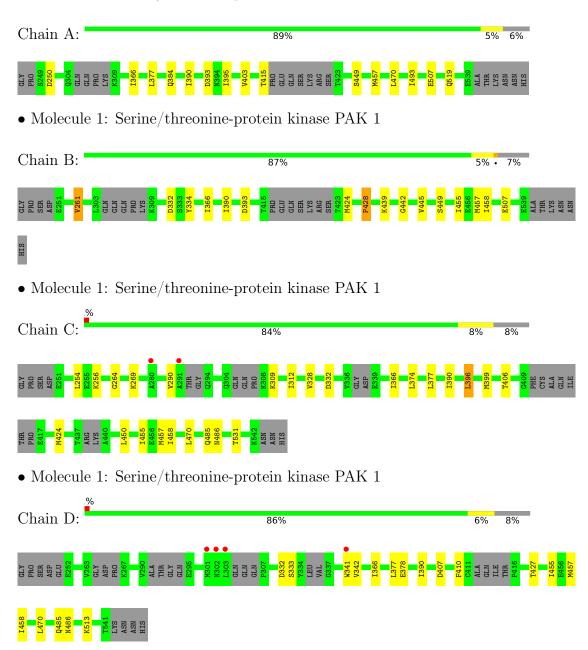
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	D	181	Total O 181 181	0	0



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: Serine/threonine-protein kinase PAK 1





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants	110.33Å 113.79Å 116.36Å	Depositor
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	116.36 - 2.20	Depositor
rtesolution (A)	116.36 - 2.20	EDS
% Data completeness	99.9 (116.36-2.20)	Depositor
(in resolution range)	99.9 (116.36-2.20)	EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	2.55 (at 2.20Å)	Xtriage
Refinement program	BUSTER 2.11.4	Depositor
D D.	0.201 , 0.238	Depositor
R, R_{free}	0.208 , 0.248	DCC
R_{free} test set	3751 reflections (4.99%)	wwPDB-VP
Wilson B-factor (Å ²)	25.5	Xtriage
Anisotropy	0.689	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.33, 57.1	EDS
L-test for twinning ²	$< L > = 0.47, < L^2> = 0.30$	Xtriage
Estimated twinning fraction	0.019 for -h,l,k	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	9072	wwPDB-VP
Average B, all atoms (Å ²)	33.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The analyses of the Patterson function reveals a significant off-origin peak that is 38.73 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 3.5308e-04. The detected translational NCS is most likely also responsible for the elevated intensity ratio.

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: MG, 4OR

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		
IVIOI	Moi Chain		RMSZ $ \# Z > 5$		# Z > 5	
1	A	0.51	0/2160	0.63	0/2929	
1	В	0.49	0/2083	0.65	0/2831	
1	С	0.50	0/2042	0.65	0/2774	
1	D	0.50	0/2021	0.62	0/2745	
All	All	0.50	0/8306	0.64	0/11279	

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	A	2126	0	2083	9	0
1	В	2049	0	1946	8	0
1	С	2012	0	1881	13	0
1	D	1990	0	1844	11	0
2	A	32	0	29	0	0
2	В	32	0	29	0	0
2	С	32	0	29	1	0
2	D	32	0	29	1	0
3	С	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	D	1	0	0	0	0
4	A	227	0	0	0	0
4	В	145	0	0	0	0
4	С	212	0	0	0	0
4	D	181	0	0	0	0
All	All	9072	0	7870	37	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 (37) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic	Clash
4 D 204 114 11042	4 D 00 4 TIVD 11 4	distance (Å)	overlap (Å)
1:B:261:VAL:HG13	1:B:334:TYR:HA	1.84	0.59
1:A:377:LEU:HD21	1:A:390:ILE:HD11	1.86	0.58
1:D:377:LEU:HD21	1:D:390:ILE:HD11	1.88	0.55
1:C:396:LEU:HD22	1:C:406:THR:HG21	1.88	0.55
1:A:470:LEU:HD11	1:D:427:THR:HG21	1.90	0.53
1:C:377:LEU:HD21	1:C:390:ILE:HD11	1.89	0.53
1:D:407:ASP:OD2	1:D:410:PHE:HB2	2.11	0.50
1:D:485:GLN:HE21	1:D:486:ASN:HD21	1.58	0.49
1:B:366:ILE:HG12	1:B:457:MET:HB3	1.94	0.48
1:A:384:GLN:HB3	1:A:415:THR:HG22	1.96	0.48
1:D:378:GLU:OE2	1:D:513:LYS:HG2	2.14	0.48
1:C:309:LYS:HA	1:C:312:ILE:HD12	1.96	0.47
1:A:390:ILE:HB	1:A:449:SER:HB2	1.96	0.46
1:A:366:ILE:HG12	1:A:457:MET:HB3	1.97	0.46
1:A:493:ILE:HD11	1:A:519:GLN:HB2	1.97	0.46
1:C:485:GLN:HE21	1:C:486:ASN:HD21	1.63	0.45
1:A:507:GLU:HB2	1:B:507:GLU:HB2	1.98	0.45
1:C:254:LEU:C	1:C:256:LYS:H	2.21	0.44
1:C:455:ILE:HA	1:C:458:ILE:HD12	1.99	0.44
1:D:455:ILE:HA	1:D:458:ILE:HD12	2.00	0.44
1:C:470:LEU:HD22	1:D:470:LEU:HD22	1.99	0.43
1:B:442:GLY:O	1:B:445:VAL:HG22	2.18	0.43
1:B:390:ILE:HB	1:B:449:SER:HB2	2.00	0.43
1:B:428:PRO:HD3	1:C:424:MET:HB3	2.00	0.43
1:A:377:LEU:HD21	1:A:390:ILE:CD1	2.48	0.43
1:C:374:LEU:HD21	1:C:450:LEU:HD22	2.01	0.42
1:C:264:GLY:HA3	1:C:269:LYS:CE	2.49	0.42
1:A:395:ILE:HG23	1:A:403:VAL:HG13	2.01	0.42

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Atom-1	Atom-2	Interatomic	Clash
Atom-1	Atom-2	${ m distance}({ m \AA})$	overlap (Å)
1:D:333:SER:HA	1:D:341:TRP:O	2.19	0.42
1:D:342:VAL:HG21	2:D:601:4OR:H16	2.01	0.41
1:C:328:VAL:O	2:C:601:4OR:H3	2.19	0.41
1:B:424:MET:HB2	1:B:439:LYS:HE2	2.02	0.41
1:D:377:LEU:HD21	1:D:390:ILE:CD1	2.48	0.41
1:C:366:ILE:HG12	1:C:457:MET:HB3	2.01	0.41
1:C:399:MET:O	1:C:531:THR:HG22	2.21	0.41
1:D:366:ILE:HG12	1:D:457:MET:HB3	2.02	0.41
1:B:455:ILE:HA	1:B:458:ILE:HD12	2.02	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	Percei	ntiles
1	A	275/299 (92%)	272 (99%)	3 (1%)	0	100	100
1	В	272/299 (91%)	266 (98%)	6 (2%)	0	100	100
1	С	264/299 (88%)	258 (98%)	5 (2%)	1 (0%)	34	37
1	D	263/299 (88%)	259 (98%)	4 (2%)	0	100	100
All	All	1074/1196 (90%)	1055 (98%)	18 (2%)	1 (0%)	51	60

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	С	290	VAL

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 O		Percentiles
1	A	223/259 (86%)	221 (99%)	2 (1%)	78 88
1	В	204/259~(79%)	200 (98%)	4 (2%)	55 69
1	С	$194/259 \; (75\%)$	192 (99%)	2 (1%)	76 86
1	D	190/259 (73%)	189 (100%)	1 (0%)	88 94
All	All	811/1036 (78%)	802 (99%)	9 (1%)	73 85

All (9) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	250	ASP
1	A	393	ASP
1	В	261	VAL
1	В	332	ASP
1	В	393	ASP
1	В	428	PRO
1	С	332	ASP
1	С	396	LEU
1	D	332	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (5) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	322	ASN
1	В	322	ASN
1	С	322	ASN
1	С	485	GLN
1	D	486	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 6 ligands modelled in this entry, 2 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 Type		Chain Dog		Res Link	Вс	Bond lengths			Bond angles		
MIOI	$egin{array}{c c} \operatorname{Mol} & \operatorname{Type} & \operatorname{Chain} & \operatorname{Re} \end{array}$	nes	LIIIK	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2		
2	4OR	В	601	-	34,35,35	0.71	1 (2%)	46,52,52	0.89	2 (4%)	
2	4OR	A	601	-	34,35,35	0.61	1 (2%)	46,52,52	0.81	1 (2%)	
2	4OR	D	601	-	34,35,35	0.84	2 (5%)	46,52,52	0.92	1 (2%)	
2	4OR	С	601	-	34,35,35	0.80	2 (5%)	46,52,52	0.62	1 (2%)	

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	4OR	В	601	-	-	2/13/40/40	0/4/4/4
2	4OR	A	601	-	-	1/13/40/40	0/4/4/4
2	4OR	D	601	-	-	2/13/40/40	0/3/4/4
2	4OR	C	601	_	-	1/13/40/40	0/4/4/4

All (6) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\operatorname{Observed}(\operatorname{\AA})$	Ideal(Å)
2	D	601	4OR	C13-N4	4.10	1.44	1.37
2	В	601	4OR	C13-N4	3.89	1.44	1.37
2	С	601	4OR	C13-N4	3.42	1.43	1.37
2	A	601	4OR	C13-N4	3.09	1.43	1.37
2	С	601	4OR	C12-C9	2.71	1.58	1.53
2	D	601	4OR	C12-C9	2.21	1.57	1.53



All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
2	D	601	4OR	C9-N2-C8	5.04	127.66	122.20
2	В	601	4OR	C9-N2-C8	4.64	127.22	122.20
2	A	601	4OR	C9-N2-C8	4.61	127.19	122.20
2	С	601	4OR	C14-N4-C13	2.63	129.47	125.14
2	В	601	4OR	C14-N4-C13	2.58	129.38	125.14

There are no chirality outliers.

All (6) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	С	601	4OR	C-C1-N-C23
2	D	601	4OR	C-C1-N-C23
2	В	601	4OR	C12-C9-N2-C8
2	D	601	4OR	C12-C9-N2-C8
2	A	601	4OR	C-C1-N-C23
2	В	601	4OR	C-C1-N-C23

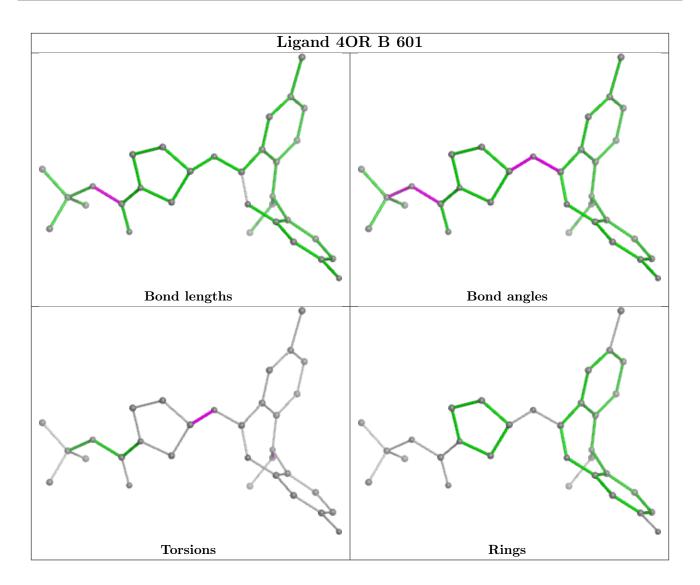
There are no ring outliers.

2 monomers are involved in 2 short contacts:

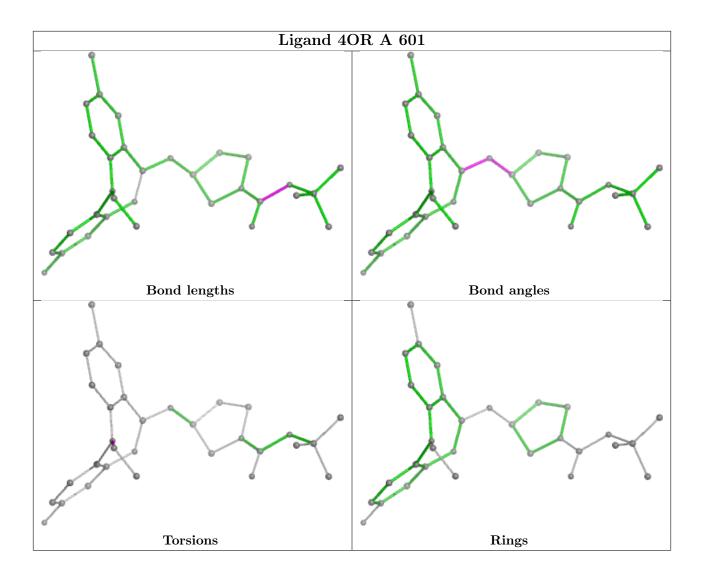
Mol	Chain	Res	Res Type Clashe		Symm-Clashes
2	D	601	4OR	1	0
2	С	601	4OR	1	0

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.

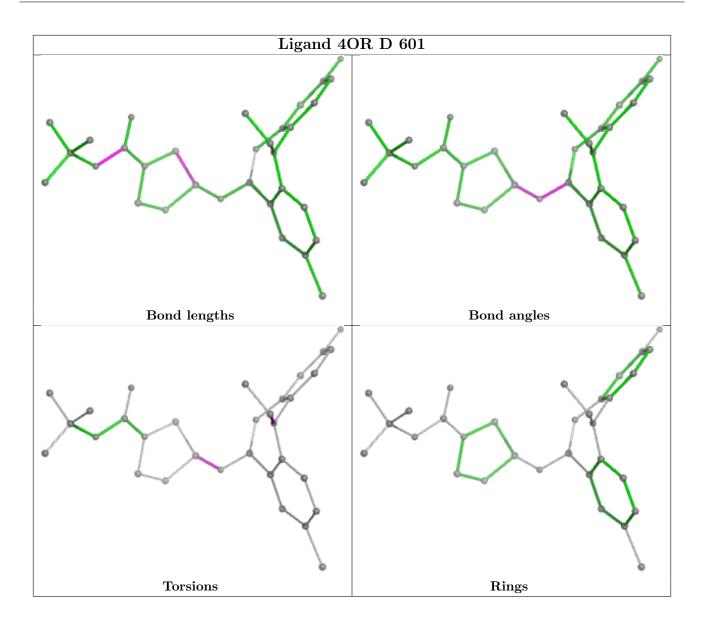




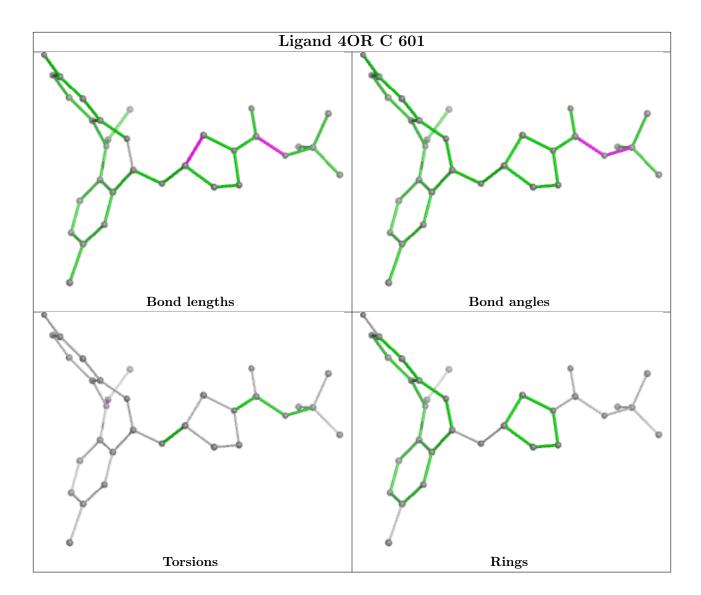












5.7 Other polymers (i)

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	<rsrz></rsrz>	$\#\mathrm{RSRZ}{>}2$	$\mathrm{OWAB}(\mathrm{\AA}^2)$	Q < 0.9
1	A	280/299 (93%)	-0.46	0 100 100	15, 23, 51, 86	0
1	В	277/299 (92%)	-0.41	0 100 100	19, 35, 70, 103	0
1	С	276/299 (92%)	-0.32	2 (0%) 87 86	15, 30, 68, 98	0
1	D	274/299 (91%)	-0.30	4 (1%) 73 72	16, 30, 64, 90	0
All	All	$1107/1196 \ (92\%)$	-0.37	6 (0%) 91 90	15, 30, 65, 103	0

All (6) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	D	341	TRP	4.3
1	D	301	MET	3.6
1	D	303	LEU	2.7
1	D	302	ASN	2.3
1	С	291	ALA	2.2
1	С	280	ALA	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)

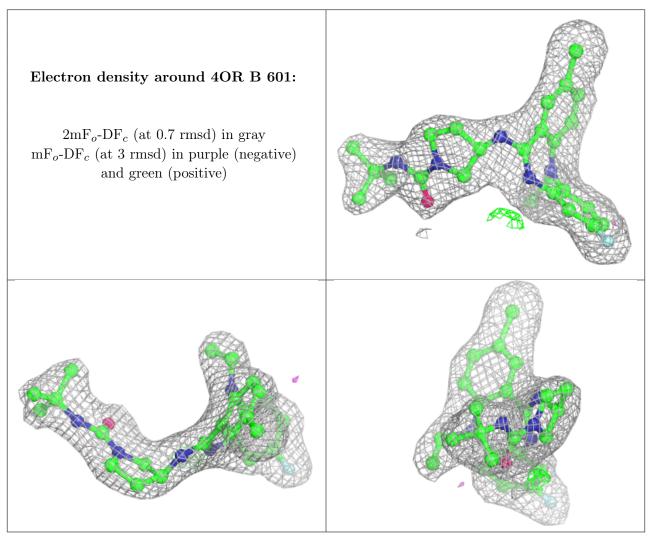
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum,



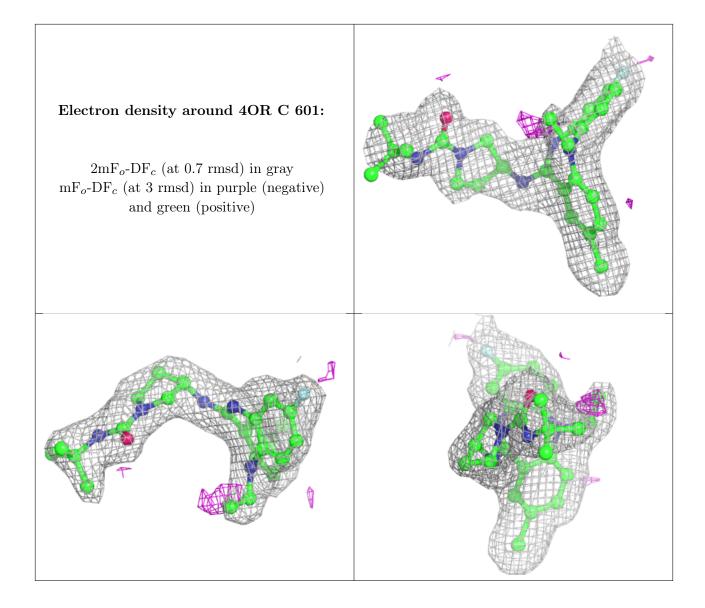
median, 95^{th} percentile and maximum values of B factors of atoms in the group.	The column
labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.	

Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q<0.9
2	4OR	В	601	32/32	0.95	0.12	28,34,39,42	0
2	4OR	С	601	32/32	0.95	0.13	20,33,46,48	0
2	4OR	A	601	32/32	0.97	0.11	15,21,28,30	0
2	4OR	D	601	32/32	0.97	0.10	19,23,39,41	0
3	MG	С	602	1/1	0.98	0.06	36,36,36,36	0
3	MG	D	602	1/1	0.98	0.08	42,42,42,42	0

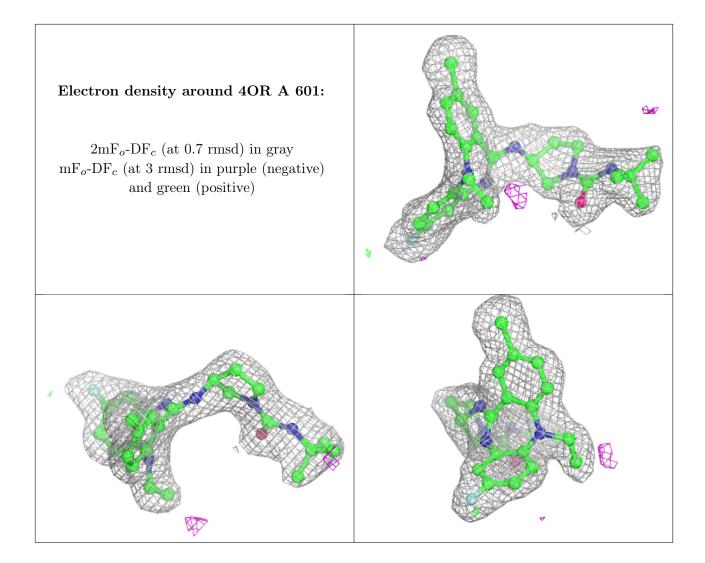
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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



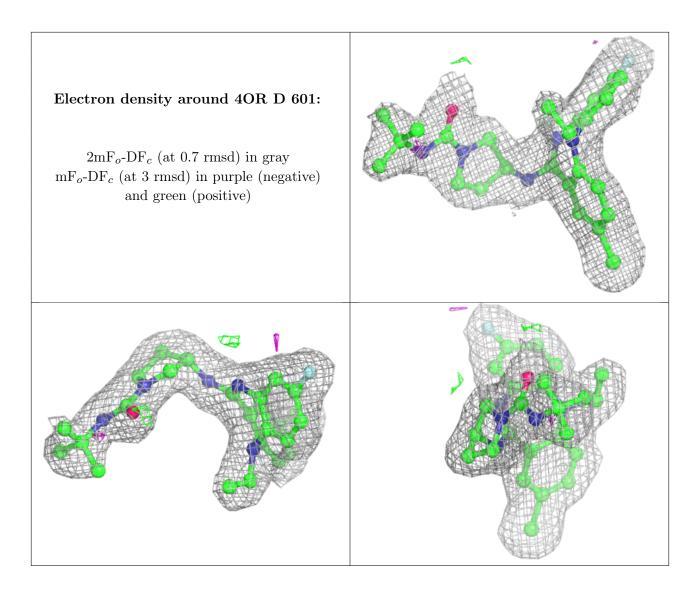












6.5 Other polymers (i)

There are no such residues in this entry.

