

Full wwPDB X-ray Structure Validation Report (i)

Dec 16, 2023 – 03:20 PM EST

PDB ID : 4P9P

Title: Structure of NavMS in complex with channel blocking compound

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Deposited on : 2014-04-04

Resolution : 2.91 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 : 1.8.5 (274361), CSD as541be (2020)

Xtriage (Phenix) : 1.13

EDS : 2.36

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)

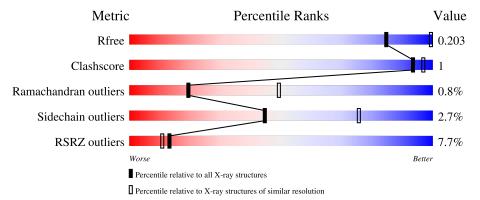
Validation Pipeline (wwPDB-VP) : 2.36

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 2.91 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	Whole archive	Similar resolution
Metric	$(\# \mathrm{Entries})$	$(\# ext{Entries}, ext{ resolution range}(ext{Å}))$
R_{free}	130704	2307 (2.94-2.90)
Clashscore	141614	2531 (2.94-2.90)
Ramachandran outliers	138981	2462 (2.94-2.90)
Sidechain outliers	138945	2464 (2.94-2.90)
RSRZ outliers	127900	2248 (2.94-2.90)

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	149	7%	60%		38%	-	
1	В	149	% •	58%	•	40%	_	
1	С	149	6%	55%	6%	39%	-	
1	D	149	5%	56%	5% •	39%	_	

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
3	BR	A	305	-	-	=	X
4	NA	A	304	-	-	=	X
4	NA	С	304	-	-	=	X



2 Entry composition (i)

There are 6 unique types of molecules in this entry. The entry contains 3201 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 Ion transport protein.

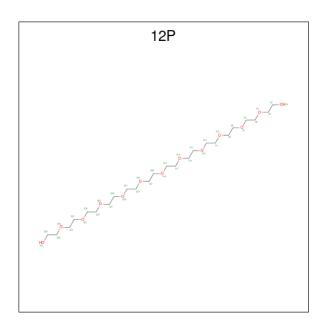
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1	Λ	92	Total	С	N	О	S	0	0	0
1	A	92	718	488	106	119	5	0	U	U
1	В	90	Total	С	N	О	S	0	0	0
1	Ъ	90	696	468	104	119	5	U		
1	С	91	Total	С	N	О	S	0	0	0
1		91	696	466	105	120	5	0		U
1	D	01	Total	С	N	О	S	0	0	0
	ש	91	693	464	104	120	5		U	U

There are 16 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	126	GLY	-	expression tag	UNP A0L5S6
A	127	SER	-	expression tag	UNP A0L5S6
A	128	HIS	-	expression tag	UNP A0L5S6
A	129	MET	-	expression tag	UNP A0L5S6
В	126	GLY	-	expression tag	UNP A0L5S6
В	127	SER	-	expression tag	UNP A0L5S6
В	128	HIS	-	expression tag	UNP A0L5S6
В	129	MET	-	expression tag	UNP A0L5S6
С	126	GLY	-	expression tag	UNP A0L5S6
С	127	SER	-	expression tag	UNP A0L5S6
С	128	HIS	-	expression tag	UNP A0L5S6
С	129	MET	-	expression tag	UNP A0L5S6
D	126	GLY	-	expression tag	UNP A0L5S6
D	127	SER	-	expression tag	UNP A0L5S6
D	128	HIS	-	expression tag	UNP A0L5S6
D	129	MET	-	expression tag	UNP A0L5S6

• Molecule 2 is DODECAETHYLENE GLYCOL (three-letter code: 12P) (formula: C₂₄H₅₀O₁₃).





Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total C O 16 10 6	0	0
2	В	1	Total C O 16 10 6	0	0

• Molecule 3 is BROMIDE ION (three-letter code: BR) (formula: Br).

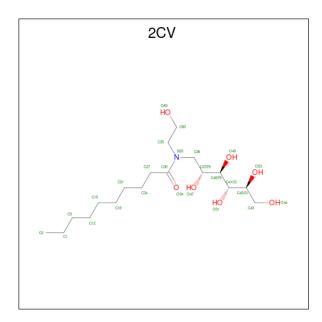
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	2	Total Br 2 2	0	0
3	С	1	Total Br 1 1	0	0
3	D	1	Total Br 1 1	0	0

• Molecule 4 is SODIUM ION (three-letter code: NA) (formula: Na).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	2	Total Na 2 2	0	0
4	С	2	Total Na 2 2	0	0

 \bullet Molecule 5 is HEGA-10 (three-letter code: 2CV) (formula: $\mathrm{C_{18}H_{37}NO_{7}}).$





Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	
5	В	1	Total	С	N	О	0	0	
9	Б	1	26	18	1	7	U	0	
5	В	1	Total	С	N	О	0	0	
9	Б	1	21	16	1	4	U	0	
5	С	1	Total	С	N	О	0	0	
5		1	20	15	1	4	U	0	
5	D	1	Total	С	N	О	0	0	
5	D	1	18	14	1	3	U	0	

• Molecule 6 is water.

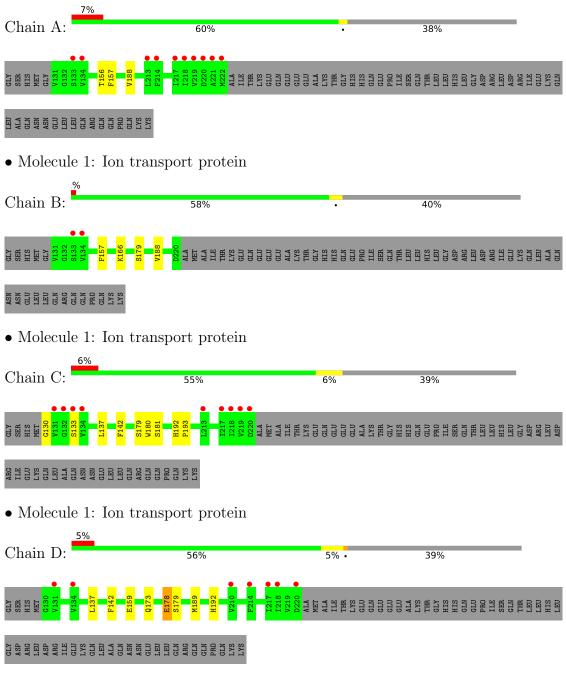
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	A	61	Total O 61 61	0	0
6	В	60	Total O 60 60	0	0
6	С	76	Total O 76 76	0	0
6	D	76	Total O 76 76	0	0



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: Ion transport protein





4 Data and refinement statistics (i)

Property	Value	Source
Space group	C 2 2 21	Depositor
Cell constants	80.17Å 330.94Å 79.98Å	Depositor
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	32.73 - 2.91	Depositor
Resolution (A)	45.41 - 2.91	EDS
% Data completeness	98.3 (32.73-2.91)	Depositor
(in resolution range)	98.8 (45.41-2.91)	EDS
R_{merge}	0.15	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	1.48 (at 2.91Å)	Xtriage
Refinement program	BUSTER 2.10.0	Depositor
P. P.	0.164 , 0.197	Depositor
R, R_{free}	0.168 , 0.203	DCC
R_{free} test set	1219 reflections (5.18%)	wwPDB-VP
Wilson B-factor (Å ²)	42.2	Xtriage
Anisotropy	1.349	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.33, 92.2	EDS
L-test for twinning ²	$ < L >=0.47, < L^2>=0.30$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	3201	wwPDB-VP
Average B, all atoms (Å ²)	62.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 18.25% of the height of the origin peak. No significant pseudotranslation is detected.

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: 2CV, BR, 12P, NA

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	Chain	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	A	0.52	0/740	0.67	0/1015	
1	В	0.53	0/717	0.67	0/984	
1	С	0.51	0/715	0.65	0/980	
1	D	0.52	0/714	0.66	0/979	
All	All	0.52	0/2886	0.66	0/3958	

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a maintenain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers	
1	С	0	1	

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	С	192	HIS	Mainchain

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	718	0	726	1	0
1	В	696	0	687	2	0
1	С	696	0	688	3	0
1	D	693	0	670	3	0
2	A	16	0	21	0	0
2	В	16	0	21	0	0
3	A	2	0	0	0	0
3	С	1	0	0	0	0
3	D	1	0	0	0	0
4	A	2	0	0	0	0
4	С	2	0	0	0	0
5	В	47	0	67	2	0
5	С	20	0	29	0	0
5	D	18	0	27	0	0
6	A	61	0	0	0	0
6	В	60	0	0	0	0
6	С	76	0	0	0	0
6	D	76	0	0	0	0
All	All	3201	0	2936	8	0

The all-atom clash score is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clash score for this structure is 1.

All (8) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

A + a + m 1	Atom-2	Interatomic	Clash	
Atom-1	Atom-2	${ m distance}({ m \AA})$	$overlap(\AA)$	
1:B:166:LYS:HG2	5:B:301:2CV:H41	1.70	0.74	
1:B:157:PHE:CZ	1:B:188:VAL:HA	2.42	0.54	
1:D:189:MET:HA	1:D:192:HIS:O	2.09	0.52	
1:A:157:PHE:CZ	1:A:188:VAL:HA	2.48	0.48	
1:C:181:SER:CB	1:D:173:GLN:HG3	2.45	0.47	
5:B:301:2CV:O51	5:B:301:2CV:O47	2.33	0.46	
1:C:130:GLY:N	1:C:133:SER:HG	2.15	0.45	
1:C:180:TRP:CD1	1:D:178:GLU:HG3	2.56	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	Percentiles		
1	A	90/149~(60%)	84 (93%)	6 (7%)	0	100	100	
1	В	88/149 (59%)	84 (96%)	3 (3%)	1 (1%)	14	41	
1	С	89/149~(60%)	84 (94%)	4 (4%)	1 (1%)	14	41	
1	D	89/149 (60%)	85 (96%)	3 (3%)	1 (1%)	14	41	
All	All	356/596~(60%)	337 (95%)	16 (4%)	3 (1%)	19	49	

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	В	179	SER
1	С	179	SER
1	D	179	SER

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	Perce	ntiles
1	A	77/129~(60%)	76~(99%)	1 (1%)	69	89
1	В	74/129 (57%)	74 (100%)	0	100	100
1	С	74/129 (57%)	71 (96%)	3 (4%)	30	63
1	D	72/129 (56%)	68 (94%)	4 (6%)	21	50
All	All	297/516 (58%)	289 (97%)	8 (3%)	44	75

All (8) residues with a non-rotameric sidechain are listed below:



Mol	Chain	Res	Type
1	A	156	THR
1	С	137	LEU
1	С	142	PHE
1	С	193	PRO
1	D	137	LEU
1	D	142	PHE
1	D	159	GLU
1	D	178	GLU

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)

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 14 ligands modelled in this entry, 8 are monoatomic - leaving 6 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	Res	Link	Bond lengths			Bond angles		
IVIOI	туре	Chain	rtes	Lilik	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
5	2CV	D	301	-	17,17,25	0.25	0	18,18,30	0.42	0
2	12P	A	301	-	15,15,36	0.23	0	14,14,35	0.18	0
5	2CV	С	301	-	19,19,25	0.26	0	20,21,30	1.23	1 (5%)



Mol	Mol Type C		Res	Link	Bond lengths			Bond angles		
IVIOI	туре	Chain	nes	LIIIK	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
5	2CV	В	302	-	20,20,25	0.24	0	22,23,30	0.32	0
5	2CV	В	301	-	25,25,25	0.31	0	29,30,30	0.62	0
2	12P	В	303	-	15,15,36	0.23	0	14,14,35	0.19	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	Res	Link	Chirals	Torsions	Rings
5	2CV	D	301	-	-	1/19/19/34	-
2	12P	A	301	-	-	8/13/13/34	-
5	2CV	С	301	-	-	3/22/22/34	-
5	2CV	В	302	-	-	1/24/24/34	-
5	2CV	В	301	-	-	8/34/34/34	-
2	12P	В	303	-	-	11/13/13/34	-

There are no bond length outliers.

All (1) bond angle outliers are listed below:

\mathbf{Mol}	Chain	Res	Type	Atoms	\mathbf{Z}	$\mathbf{Observed}(^{o})$	$Ideal(^{o})$
5	С	301	2CV	C37-C36-N33	5.15	118.74	113.16

There are no chirality outliers.

All (32) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	В	301	2CV	N33-C36-C37-C40
5	В	301	2CV	N33-C36-C37-O47
5	В	301	2CV	C36-C37-C40-C41
5	В	301	2CV	C36-C37-C40-O49
5	В	301	2CV	O47-C37-C40-C41
2	В	303	12P	O10-C11-C12-O13
2	В	303	12P	O1-C2-C3-O4
5	В	301	2CV	O47-C37-C40-O49
2	В	303	12P	O4-C5-C6-O7
2	A	301	12P	O1-C2-C3-O4
5	С	301	2CV	N33-C35-C60-O63
5	В	301	2CV	O49-C40-C41-O51
5	В	301	2CV	C37-C40-C41-O51

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Mol	Chain	Res	Type	Atoms
5	D	301	2CV	C0-C1-C9-C12
5	В	302	2CV	N33-C35-C60-O63
5	С	301	2CV	O47-C37-C40-O49
2	В	303	12P	C8-C9-O10-C11
2	В	303	12P	C6-C5-O4-C3
2	A	301	12P	C5-C6-O7-C8
2	В	303	12P	C15-C14-O13-C12
2	A	301	12P	C8-C9-O10-C11
2	В	303	12P	C9-C8-O7-C6
2	В	303	12P	C5-C6-O7-C8
2	В	303	12P	C11-C12-O13-C14
2	A	301	12P	C6-C5-O4-C3
2	A	301	12P	C12-C11-O10-C9
2	В	303	12P	O7-C8-C9-O10
5	С	301	2CV	N33-C36-C37-O47
2	A	301	12P	O7-C8-C9-O10
2	В	303	12P	C2-C3-O4-C5
2	A	301	12P	C9-C8-O7-C6
2	A	301	12P	O4-C5-C6-O7

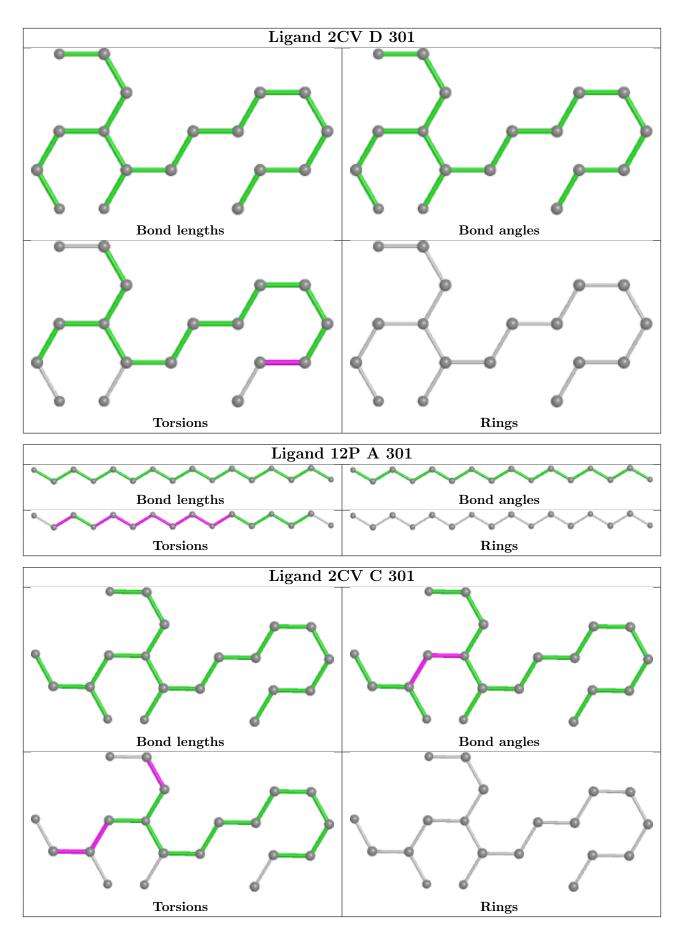
There are no ring outliers.

1 monomer is involved in 2 short contacts:

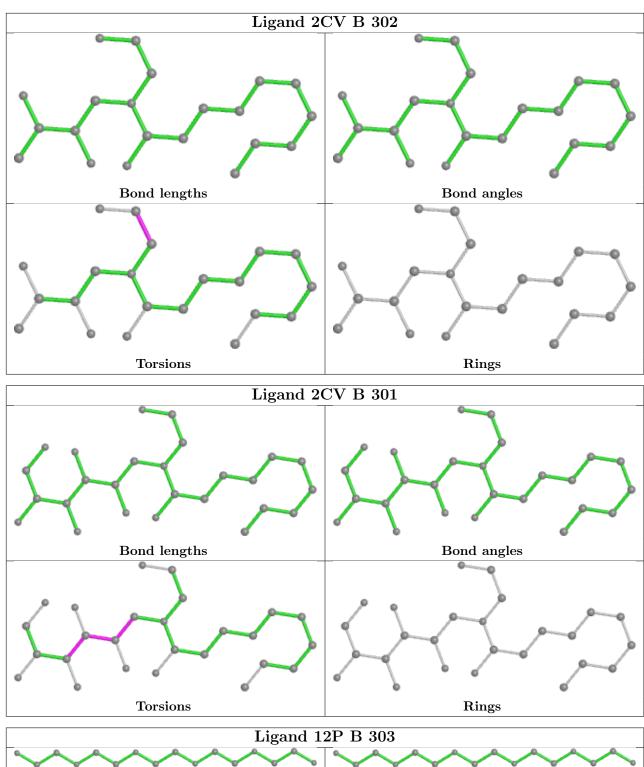
Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	В	301	2CV	2	0

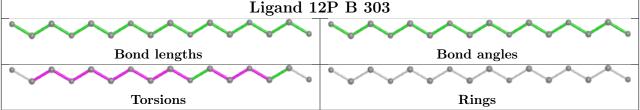
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. 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>	$\#\mathrm{RSRZ}{>}2$	$OWAB(Å^2)$	Q < 0.9
1	A	92/149 (61%)	0.06	10 (10%) 5 4	36, 47, 136, 171	0
1	В	90/149 (60%)	-0.10	2 (2%) 62 60	37, 47, 130, 178	0
1	С	91/149 (61%)	0.02	9 (9%) 7 5	39, 48, 128, 173	0
1	D	91/149 (61%)	-0.12	7 (7%) 13 11	37, 49, 123, 166	0
All	All	364/596 (61%)	-0.03	28 (7%) 13 11	36, 48, 130, 178	0

All (28) RSRZ outliers are listed below:

Mol	Chain	Res Type		RSRZ
1	С	217	ILE	5.2
1	D	218	ILE	4.4
1	С	218	ILE	4.2
1	С	213	LEU	3.7
1	В	134	VAL	3.5
1	С	220	ASP	3.4
1	A	133	SER	3.3
1	A	218	ILE	3.1
1	A	221	ALA	3.0
1	A	220	ASP	2.9
1	С	133	SER	2.9
1	D	214	PHE	2.9
1	A	214	PHE	2.9
1	A	134	VAL	2.8
1	В	133	SER	2.8
1	D	210	VAL	2.6
1	С	134	VAL	2.5
1	A	217	ILE	2.5
1	D	217	ILE	2.4
1	D	220	ASP	2.4
1	A	222	MET	2.3

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Mol	Chain	Res	Type	RSRZ
1	D	131	VAL	2.3
1	С	132	GLY	2.2
1	D	134	VAL	2.1
1	A	219	VAL	2.1
1	С	131	VAL	2.1
1	С	219	VAL	2.1
1	A	213	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)

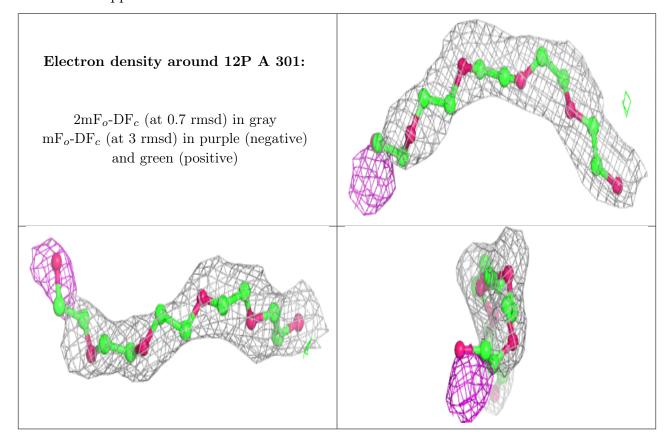
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9'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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q < 0.9
4	NA	A	304	1/1	0.69	1.68	78,78,78,78	1
4	NA	С	304	1/1	0.70	1.57	38,38,38,38	1
3	BR	A	305	1/1	0.74	1.11	64,64,64,64	1
4	NA	С	303	1/1	0.88	1.41	65,65,65,65	1
2	12P	A	301	16/37	0.89	0.42	75,86,94,95	0
5	2CV	С	301	20/26	0.89	0.27	53,66,86,87	0
2	12P	В	303	16/37	0.90	0.41	78,79,83,84	0
4	NA	A	303	1/1	0.90	1.21	61,61,61,61	1
5	2CV	В	301	26/26	0.91	0.32	56,71,89,90	0
5	2CV	D	301	18/26	0.91	0.29	40,58,64,66	0
5	2CV	В	302	21/26	0.92	0.26	44,58,77,79	0
3	BR	D	302	1/1	0.92	0.46	56,56,56,56	1
3	BR	С	302	1/1	0.92	0.41	59,59,59,59	1
3	BR	A	302	1/1	0.93	1.23	73,73,73,73	1

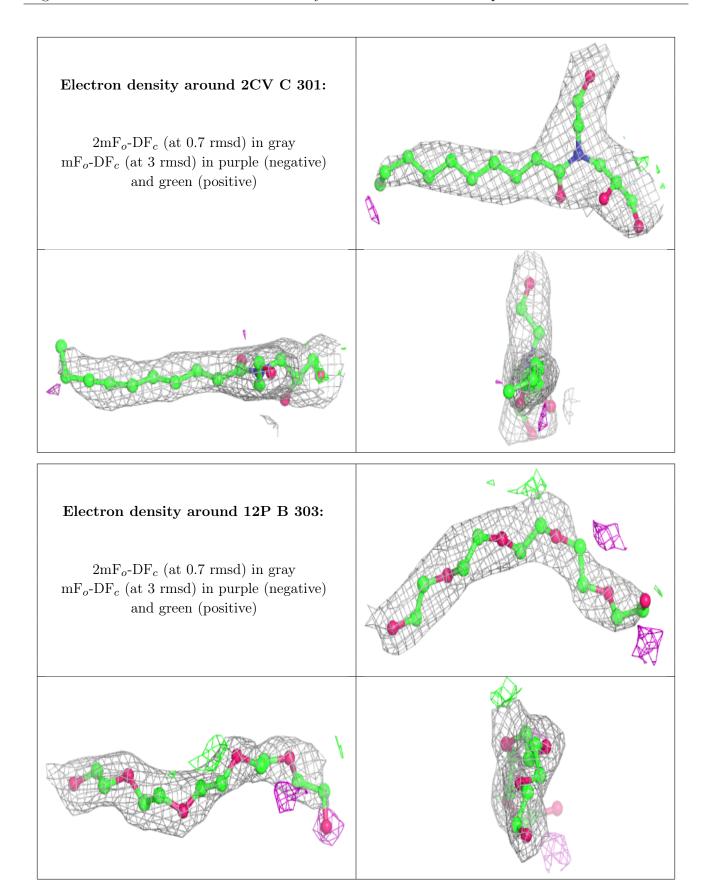
The following is a graphical depiction of the model fit to experimental electron density of all



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.



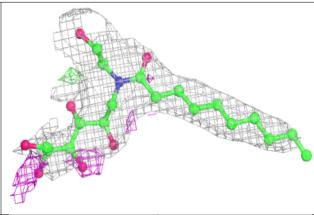


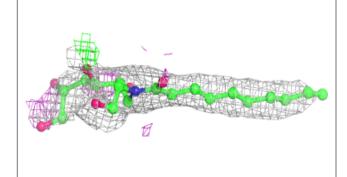


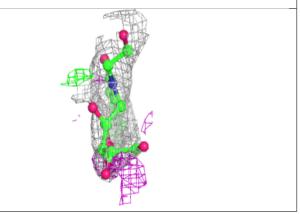


Electron density around 2CV B 301:

 $2 \mathrm{mF}_o\text{-}\mathrm{DF}_c$ (at 0.7 rmsd) in gray $\mathrm{mF}_o\text{-}\mathrm{DF}_c$ (at 3 rmsd) in purple (negative) and green (positive)

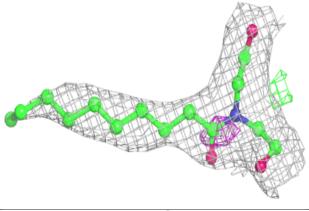


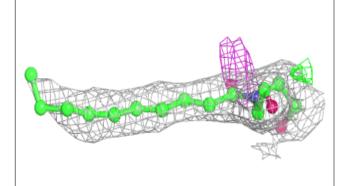


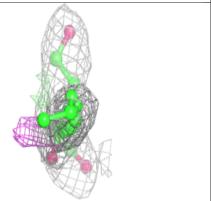


Electron density around 2CV D 301:

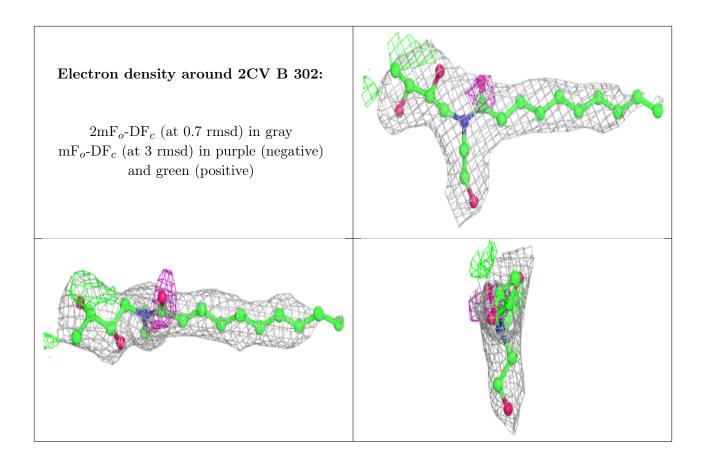
 $2 \text{mF}_o\text{-DF}_c$ (at 0.7 rmsd) in gray $\text{mF}_o\text{-DF}_c$ (at 3 rmsd) in purple (negative) and green (positive)











6.5 Other polymers (i)

There are no such residues in this entry.

