

Full wwPDB X-ray Structure Validation Report (i)

Jun 25, 2025 – 08:45 PM JST

PDB ID : 9L2N / pdb 00009l2n

Title : Crystal structure of Cytochalasin D bound to a filamentous conformation actin

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Deposited on : 2024-12-17

Resolution : 1.70 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 : 4-5-2 with Phenix2.0rc1

Mogul : 1.8.5 (274361), CSD as541be (2020)

Xtriage (Phenix) : 2.0rc1

EDS : 3.0

buster-report : 1.1.7 (2018)

Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)

CCP4 : 9.0.006 (Gargrove)

Density-Fitness : 1.0.12

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

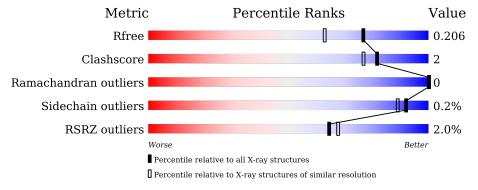
Validation Pipeline (wwPDB-VP) : 2.44

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 1.70 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 $(\# \mathrm{Entries})$	$\begin{array}{c} {\rm Similar\ resolution} \\ (\#{\rm Entries},{\rm resolution\ range}(\mathring{\rm A})) \end{array}$
R_{free}	164625	5161 (1.70-1.70)
Clashscore	180529	5671 (1.70-1.70)
Ramachandran outliers	177936	5594 (1.70-1.70)
Sidechain outliers	177891	5594 (1.70-1.70)
RSRZ outliers	164620	5159 (1.70-1.70)

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	375	90%	6%	.			
2	В	162	79%	20%	_			



2 Entry composition (i)

There are 9 unique types of molecules in this entry. The entry contains 4941 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 Actin, alpha skeletal muscle.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1	A	362	Total 2931	C 1858	N 492	O 560	S 21	0	15	0

• Molecule 2 is a protein called Actin-binding protein fragmin P.

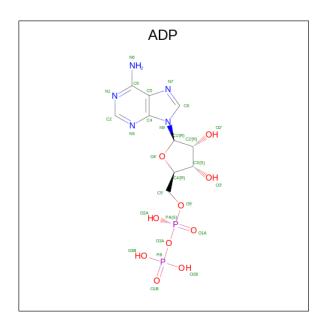
\mathbf{Mol}	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace	
2	В	129	Total 1050	C 678	N 176	O 196	0	3	1

There are 3 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
В	-1	GLY	-	expression tag	UNP Q94707
В	0	PRO	-	expression tag	UNP Q94707
В	13	ALA	ASN	engineered mutation	UNP Q94707

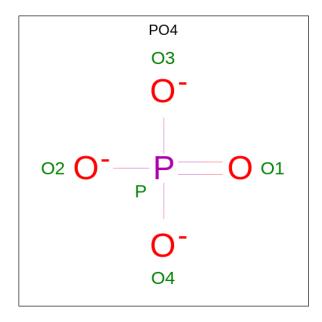
• Molecule 3 is ADENOSINE-5'-DIPHOSPHATE (CCD ID: ADP) (formula: $C_{10}H_{15}N_5O_{10}P_2$) (labeled as "Ligand of Interest" by depositor).





Mol	Chain	Residues	Atoms			ZeroOcc	AltConf		
3	A	1	Total 27	C 10	_	O 10	P 2	0	0

 $\bullet\,$ Molecule 4 is PHOSPHATE ION (CCD ID: PO4) (formula: ${\rm O_4P}).$



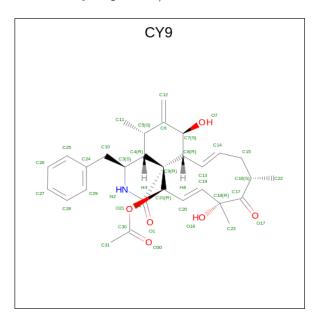
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	1	Total O P 5 4 1	0	0
4	A	1	Total O P 5 4 1	0	0
4	A	1	Total O P 5 4 1	0	0



• Molecule 5 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	1	Total Mg 1 1	0	0

• Molecule 6 is (3S,3aR,4S,6S,6aR,7E,10S,12R,13E,15R,15aR)-3-benzyl-6,12-dihydroxy-4,10,1 2-trimethyl-5-methylidene-1,11-dioxo-2,3,3a,4,5,6,6a,9,10,11,12,15-dodecahydro-1H-cycloun deca[d]isoindol-15-yl acetate (CCD ID: CY9) (formula: $C_{30}H_{37}NO_6$) (labeled as "Ligand of Interest" by depositor).



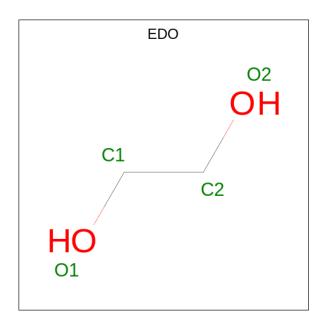
\mathbf{M}	ol	Chain	Residues	A	ton	ns		ZeroOcc	AltConf
6	;	A	1	Total 37	C 30	N 1	O 6	0	0

• Molecule 7 is CALCIUM ION (CCD ID: CA) (formula: Ca).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	В	2	Total Ca 2 2	0	0

• Molecule 8 is 1,2-ETHANEDIOL (CCD ID: EDO) (formula: $C_2H_6O_2$).





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

• Molecule 9 is water.

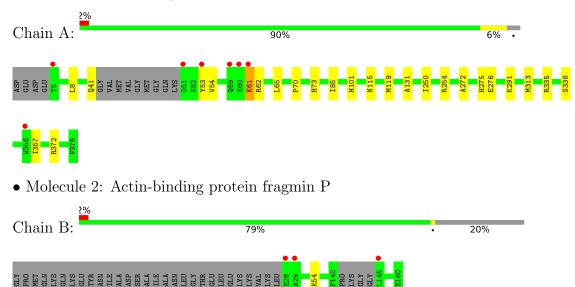
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
9	A	580	Total O 589 589	0	15
9	В	273	Total O 281 281	0	8



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: Actin, alpha skeletal muscle





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants	57.21Å 90.81Å 114.55Å	Donositor
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	42.21 - 1.70	Depositor
rtesolution (A)	42.21 - 1.70	EDS
% Data completeness	99.5 (42.21-1.70)	Depositor
(in resolution range)	99.4 (42.21-1.70)	EDS
R_{merge}	0.13	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	1.15 (at 1.70Å)	Xtriage
Refinement program	PHENIX 1.21.2_5419	Depositor
D D.	0.175 , 0.204	Depositor
R, R_{free}	0.177 , 0.206	DCC
R_{free} test set	3644 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	17.6	Xtriage
Anisotropy	0.162	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.32 , 41.7	EDS
L-test for twinning ²	$ < L > = 0.49, < L^2> = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	4941	wwPDB-VP
Average B, all atoms (Å ²)	21.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 5.42% 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: PO4, HIC, MG, CY9, EDO, CA, ADP

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		
MIOI	Chain	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	A	0.30	0/3006	0.50	0/4067	
2	В	0.26	0/1087	0.49	0/1473	
All	All	0.29	0/4093	0.50	0/5540	

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	2931	0	2910	17	0
2	В	1050	0	996	1	0
3	A	27	0	12	0	0
4	A	15	0	0	0	0
5	A	1	0	0	0	0
6	A	37	0	37	1	0
7	В	2	0	0	0	0
8	В	8	0	12	0	0
9	A	589	0	0	3	0
9	В	281	0	0	1	0
All	All	4941	0	3967	19	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 (19) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	$\begin{array}{c} \text{Interatomic} \\ \text{distance (Å)} \end{array}$	Clash overlap (Å)
1:A:70:PRO:HG2	1:A:85[B]:ILE:HD12	1.79	0.63
1:A:62[B]:ARG:HG2	1:A:62[B]:ARG:HH11	1.66	0.60
1:A:272:ALA:HB1	1:A:276[B]:GLU:HB2	1.87	0.56
1:A:53:TYR:CE2	1:A:61[A]:LYS:HE3	2.41	0.55
6:A:406:CY9:C20	6:A:406:CY9:C13	2.87	0.53
1:A:250:ILE:HG12	1:A:254:ARG:HG3	1.92	0.52
1:A:275:HIS:HA	1:A:313:MET:HE1	1.92	0.52
1:A:62[B]:ARG:HG2	1:A:62[B]:ARG:NH1	2.25	0.52
1:A:272:ALA:HB1	1:A:276[A]:GLU:HB3	1.91	0.51
1:A:53:TYR:HD2	1:A:65:LEU:HD11	1.77	0.49
1:A:8:LEU:HG	1:A:101:HIS:HB3	1.92	0.49
1:A:335:ARG:HA	1:A:338[A]:SER:OG	2.12	0.49
2:B:54:LYS:NZ	9:B:301:HOH:O	2.22	0.49
1:A:115:ASN:O	1:A:119:MET:HG3	2.15	0.47
1:A:291[A]:LYS:HG3	9:A:573:HOH:O	2.16	0.46
1:A:54:VAL:HG13	1:A:85[A]:ILE:HD13	1.98	0.45
1:A:41:GLN:NE2	9:A:507:HOH:O	2.35	0.44
1:A:372:ARG:NH2	9:A:525:HOH:O	2.53	0.42
1:A:131:ALA:HA	1:A:357:ILE:O	2.22	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	A	372/375~(99%)	365 (98%)	7 (2%)	0	100	100
2	В	128/162 (79%)	126 (98%)	2 (2%)	0	100	100

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Mol	Chain	Analysed	Analysed Favoured Allo			
All	All	500/537 (93%)	491 (98%)	9 (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	A	322/317 (102%)	320 (99%)	2 (1%)	84	78	
2	В	109/134 (81%)	109 (100%)	0	100	100	
All	All	431/451 (96%)	429 (100%)	2 (0%)	92	82	

All (2) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	61[A]	LYS
1	A	61[B]	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (3) such sidechains are listed below:

Mol	Chain	Res	\mathbf{Type}
1	A	161	HIS
1	A	162	ASN
1	A	360	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)

1 non-standard protein/DNA/RNA residue is 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	Link	B	ond leng	$_{ m gths}$	В	ond ang	gles
MIOI	Туре	Chain	rtes	Lilik	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z >2
1	HIC	A	73	1	8,11,12	1.86	2 (25%)	6,14,16	0.59	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
1	HIC	A	73	1	-	0/5/6/8	0/1/1/1

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(A)	$\operatorname{Ideal}(\text{\AA})$
1	A	73	HIC	CD2-CG	4.09	1.42	1.36
1	A	73	HIC	CD2-NE2	2.21	1.41	1.38

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

Of 10 ligands modelled in this entry, 3 are monoatomic - leaving 7 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	Tuno	Chain	Res	Link	Вс	ond leng	$_{ m ths}$	Bond angles		
MIOI	Type	Chain	nes	Lilik	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
4	PO4	A	404	-	4,4,4	0.95	0	6,6,6	0.49	0
8	EDO	В	203	-	3,3,3	0.44	0	2,2,2	0.46	0
4	PO4	A	405	-	4,4,4	0.88	0	6,6,6	0.42	0
6	CY9	A	406	-	33,40,40	1.44	5 (15%)	31,61,61	1.15	3 (9%)
3	ADP	A	401	5	24,29,29	0.90	1 (4%)	29,45,45	1.30	4 (13%)
4	PO4	A	402	5	4,4,4	0.91	0	6,6,6	1.11	0
8	EDO	В	204	-	3,3,3	0.51	0	2,2,2	0.29	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	\mathbf{Type}	Chain	Res	Link	Chirals	Torsions	Rings
6	CY9	A	406	-	-	3/36/78/78	0/3/4/4
8	EDO	В	204	-	-	0/1/1/1	-
8	EDO	В	203	-	-	0/1/1/1	-
3	ADP	A	401	5	-	0/12/32/32	0/3/3/3

All (6) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\operatorname{Observed}(\text{\AA})$	$Ideal(\AA)$
6	A	406	CY9	C9-C8	-4.08	1.52	1.56
6	A	406	CY9	O21-C21	-3.17	1.40	1.46
6	A	406	CY9	O1-C1	-2.64	1.18	1.22
6	A	406	CY9	O21-C30	2.52	1.40	1.35
6	A	406	CY9	C5-C4	-2.41	1.51	1.54
3	A	401	ADP	C5-C4	2.17	1.46	1.40

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\mathbf{Observed}(^o)$	$Ideal(^{o})$
6	A	406	CY9	O21-C30-C31	3.45	117.44	111.09
3	A	401	ADP	N3-C2-N1	-3.28	123.55	128.68
6	A	406	CY9	C10-C3-N2	-2.63	106.77	111.75
3	A	401	ADP	O3B-PB-O2B	2.34	116.58	107.64

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Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\mathbf{Observed}(^{o})$	$\operatorname{Ideal}({}^{o})$
3	A	401	ADP	C4-C5-N7	-2.31	106.99	109.40
3	A	401	ADP	C2-N1-C6	2.27	122.64	118.75
6	A	406	CY9	C8-C13-C14	-2.03	121.48	124.61

There are no chirality outliers.

All (3) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
6	A	406	CY9	O18-C18-C19-C20
6	A	406	CY9	C23-C18-C19-C20
6	A	406	CY9	C17-C18-C19-C20

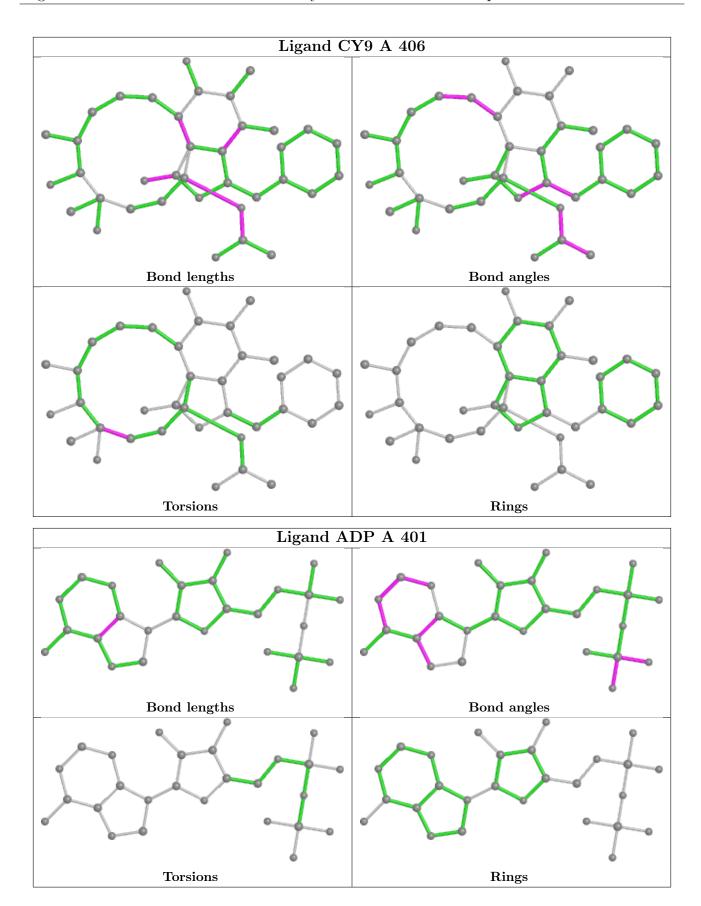
There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	A	406	CY9	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	${\bf Analysed} \qquad <{\bf RSRZ}>$		#RSRZ>	>2	$OWAB(A^2)$	Q<0.9
1	A	361/375~(96%)	-0.32	7 (1%) 66	69	6, 17, 32, 54	15 (4%)
2	В	129/162~(79%)	-0.38	3 (2%) 61	64	10, 16, 35, 58	3 (2%)
All	All	490/537 (91%)	-0.34	10 (2%) 64	68	6, 17, 33, 58	18 (3%)

All (10) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	В	29	ALA	4.1
2	В	145	LEU	2.7
1	A	5	THR	2.6
1	A	356	TRP	2.5
1	A	60	SER	2.4
2	В	28	GLU	2.4
1	A	59	GLN	2.4
1	A	53	TYR	2.3
1	A	51	ASP	2.1
1	A	61[A]	LYS	2.0

6.2 Non-standard residues in protein, DNA, RNA chains (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
1	HIC	A	73	11/12	0.95	0.07	15,20,25,25	0



6.3 Carbohydrates (i)

There are no oligosaccharides 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.

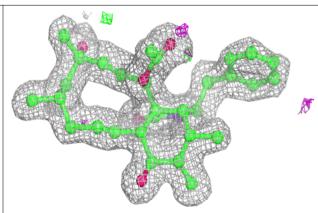
Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\operatorname{B-factors}(\mathring{\mathbf{A}}^2)$	Q < 0.9
8	EDO	В	204	4/4	0.86	0.13	28,31,34,45	0
4	PO4	A	405	5/5	0.90	0.09	39,45,47,57	5
8	EDO	В	203	4/4	0.94	0.10	19,20,27,36	0
6	CY9	A	406	37/37	0.95	0.08	13,18,29,31	0
4	PO4	A	402	5/5	0.96	0.07	16,17,21,21	0
4	PO4	A	404	5/5	0.97	0.06	26,35,38,47	5
3	ADP	A	401	27/27	0.98	0.04	10,15,20,21	0
7	CA	В	202	1/1	1.00	0.01	13,13,13,13	0
5	MG	A	403	1/1	1.00	0.01	13,13,13,13	0
7	CA	В	201	1/1	1.00	0.02	14,14,14,14	0

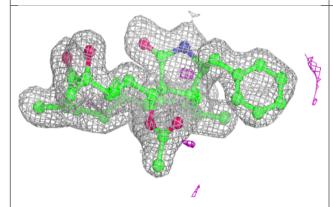
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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

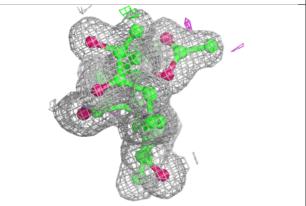


Electron density around CY9 A 406:

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

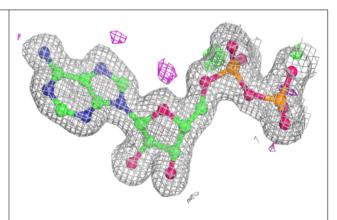


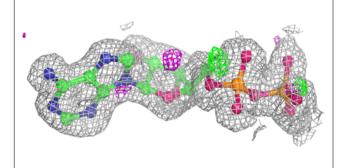


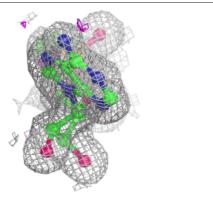


Electron density around ADP A 401:

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









6.5 Other polymers (i)

There are no such residues in this entry.

