

wwPDB X-ray Structure Validation Summary Report (i)

Oct 4, 2023 – 01:21 PM EDT

PDB ID : 6NAS

Title: Ternary Complex of Ac-Alpha-Actin with Profilin and AcCoA-NAA80

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Deposited on : 2018-12-06

Resolution : 2.90 Å(reported)

This is a wwPDB X-ray Structure Validation Summary 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 : 2.35.1buster-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)

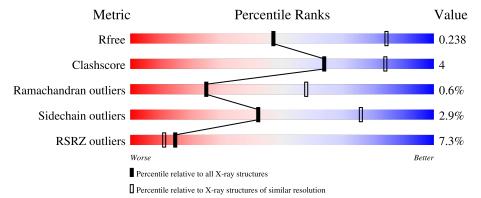
Validation Pipeline (wwPDB-VP) : 2.35.1

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure: X-RAY DIFFRACTION

The reported resolution of this entry is 2.90 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 $(\# \mathrm{Entries})$	Similar resolution $(\#\text{Entries, resolution range}(\mathring{\mathbf{A}}))$
R_{free}	130704	1957 (2.90-2.90)
Clashscore	141614	2172 (2.90-2.90)
Ramachandran outliers	138981	2115 (2.90-2.90)
Sidechain outliers	138945	2117 (2.90-2.90)
RSRZ outliers	127900	1906 (2.90-2.90)

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	375	86%	12% ••
2	N	235	68% 9%	23%
3	Р	140	8%	11%



2 Entry composition (i)

There are 10 unique types of molecules in this entry. The entry contains 10993 atoms, of which 5464 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	370	Total 5769	C 1838	H 2862	N 488	O 561	S 20	0	0	0

• Molecule 2 is a protein called N-alpha-acetyltransferase 80.

\mathbf{Mol}	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
2	N	180	Total 2885	C 911	H 1450	N 271	O 247	S 6	0	0	0

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
N	74	ALA	-	expression tag	UNP Q93015
N	75	GLY	-	expression tag	UNP Q93015
N	76	HIS	-	expression tag	UNP Q93015
N	77	MET	-	expression tag	UNP Q93015

• Molecule 3 is a protein called Profilin-1.

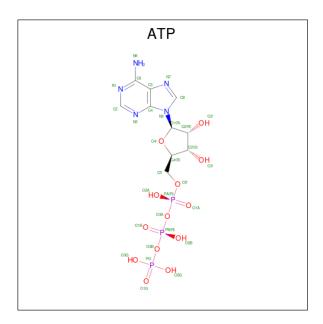
Mol	Chain	Residues			Atom	S	ZeroOcc	AltConf	Trace		
3	Р	138	Total 2081	C 654	H 1040	N 179	O 201	S 7	0	0	0

• Molecule 4 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	1	Total Ca 1 1	0	0

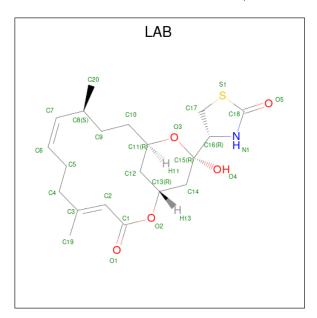
• Molecule 5 is ADENOSINE-5'-TRIPHOSPHATE (three-letter code: ATP) (formula: $C_{10}H_{16}N_5O_{13}P_3$).





Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
5	٨	1	Total	С	Н	N	О	Р	0	0
9	A	1	43	10	12	5	13	3	U	U

 \bullet Molecule 6 is LATRUNCULIN B (three-letter code: LAB) (formula: $\mathrm{C}_{20}\mathrm{H}_{29}\mathrm{NO}_5\mathrm{S}).$



Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
6	A	1	Total 56	C 20	H 29	N 1	O 5	S 1	0	0

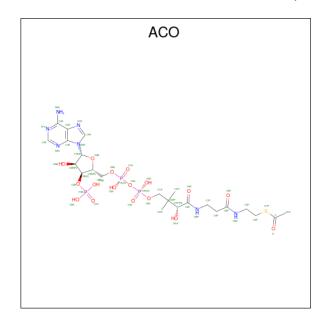
 \bullet Molecule 7 is GLYCEROL (three-letter code: GOL) (formula: $\mathrm{C_3H_8O_3}).$





Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	A	1	Total C H O 14 3 8 3	0	0
7	A	1	Total C H O 14 3 8 3	0	0
7	N	1	Total C H O 14 3 8 3	0	0

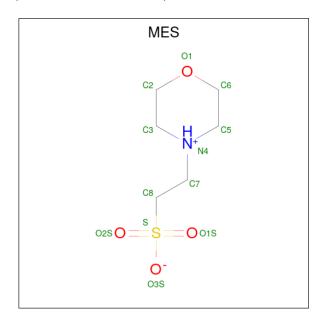
 $\bullet \ \ \mathrm{Molecule} \ 8 \ \mathrm{is} \ \mathrm{ACETYL} \ \mathrm{COENZYME} \ *A \ (\mathrm{three-letter} \ \mathrm{code} \colon \ \mathrm{ACO}) \ (\mathrm{formula} \colon \ \mathrm{C}_{23}\mathrm{H}_{38}\mathrm{N}_7\mathrm{O}_{17}\mathrm{P}_3\mathrm{S}).$



Mol	Chain	Residues	Atoms							ZeroOcc	AltConf
Q	N	1	Total	С	Н	N	О	Р	S	0	0
0	11	1	85	23	34	7	17	3	1	0	0



• Molecule 9 is 2-(N-MORPHOLINO)-ETHANESULFONIC ACID (three-letter code: MES) (formula: $C_6H_{13}NO_4S$).



Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
9	N	1	Total 25	_	H 13	N 1	O 4	S 1	0	0

• Molecule 10 is water.

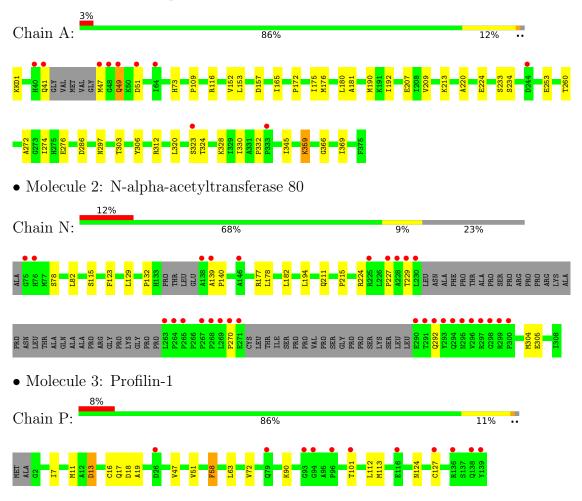
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
10	A	6	Total O 6 6	0	0



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: Actin, alpha skeletal muscle





4 Data and refinement statistics (i)

Property	Value	Source
Space group	C 2 2 21	Depositor
Cell constants	103.83Å 114.89Å 132.27Å	Donogitor
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	28.72 - 2.90	Depositor
Resolution (A)	28.72 - 2.90	EDS
% Data completeness	99.1 (28.72-2.90)	Depositor
(in resolution range)	99.1 (28.72-2.90)	EDS
R_{merge}	0.17	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	5.17 (at 2.90Å)	Xtriage
Refinement program	PHENIX 1.17.1_3660	Depositor
D D	0.184 , 0.239	Depositor
R, R_{free}	0.184 , 0.238	DCC
R_{free} test set	1772 reflections (10.00%)	wwPDB-VP
Wilson B-factor (Å ²)	41.6	Xtriage
Anisotropy	0.621	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.42, 36.0	EDS
L-test for twinning ²	$ < L >=0.48, < L^2>=0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	10993	wwPDB-VP
Average B, all atoms $(Å^2)$	44.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 4.98% 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: MES, CA, KKD, GOL, LAB, ACO, HIC, ATP

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	Bond lengths		Bond angles	
IVIOI	Chain	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	A	0.28	0/2945	0.46	0/3986	
2	N	0.33	0/1470	0.48	0/1993	
3	Р	0.28	0/1059	0.52	0/1430	
All	All	0.29	0/5474	0.48	0/7409	

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	2907	2862	2855	24	0
2	N	1435	1450	1450	10	0
3	Р	1041	1040	1040	10	0
4	A	1	0	0	0	0
5	A	31	12	12	2	0
6	A	27	29	28	4	0
7	A	12	16	16	0	0
7	N	6	8	8	0	0
8	N	51	34	34	1	0
9	N	12	13	13	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
10	A	6	0	0	0	0
All	All	5529	5464	5456	46	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 4.

The worst 5 of 46 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	$\begin{array}{c} {\rm Interatomic} \\ {\rm distance} \ ({\rm \AA}) \end{array}$	$\begin{array}{c} \text{Clash} \\ \text{overlap (Å)} \end{array}$
6:A:402:LAB:C16	6:A:402:LAB:N1	1.73	1.36
8:N:400:ACO:O4B	8:N:400:ACO:C1B	1.67	1.19
1:A:180:LEU:HD11	1:A:260:THR:HG22	1.72	0.70
2:N:78:SER:OG	2:N:177:ARG:NH1	2.35	0.60
1:A:41:GLN:O	1:A:41:GLN:HG3	2.02	0.59

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	365/375~(97%)	351 (96%)	13 (4%)	1 (0%)	41	71
2	N	172/235 (73%)	161 (94%)	8 (5%)	3 (2%)	9	31
3	Р	136/140 (97%)	130 (96%)	6 (4%)	0	100	100
All	All	673/750 (90%)	642 (95%)	27 (4%)	4 (1%)	25	58

All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	49	GLN
2	N	132	PRO

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Mol	Chain	Res	Type
2	N	123	PHE
2	N	270	PRO

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	313/316 (99%)	301 (96%)	12 (4%)	33 67
2	N	156/201 (78%)	154 (99%)	2 (1%)	69 90
3	Р	113/114 (99%)	110 (97%)	3 (3%)	44 77
All	All	582/631 (92%)	565 (97%)	17 (3%)	42 76

5 of 17 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
3	Р	13	ASP
3	Р	127	CYS
1	A	320	LEU
1	A	323	SER
1	A	324	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	41	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)

2 non-standard protein/DNA/RNA residues are modelled in this entry.



In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with |Z| > 2 is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mo	Type	Chain	Res	Link	Bond lengths			В	ond ang	les
IVIO	Type	Chain	nes	Lilik	Counts	RMSZ	# Z >2	Counts	RMSZ	# Z > 2
1	HIC	A	73	1	8,11,12	1.64	1 (12%)	6,14,16	1.48	1 (16%)
1	KKD	A	1	1	9,10,11	2.20	2 (22%)	11,12,14	1.35	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
Ī	1	HIC	A	73	1	-	0/5/6/8	0/1/1/1
	1	KKD	A	1	1	-	4/9/10/12	-

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\operatorname{Observed}(\text{\AA})$	Ideal(Å)
1	A	1	KKD	CT1-N	5.63	1.53	1.34
1	A	73	HIC	CD2-CG	3.66	1.41	1.36
1	A	1	KKD	CB-CG	2.40	1.57	1.51

All (1) bond angle outliers are listed below:

	Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$Observed(^o)$	$\mathrm{Ideal}(^{o})$
ſ	1	A	73	HIC	CB-CA-C	-3.04	105.77	111.47

There are no chirality outliers.

All (4) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	A	1	KKD	C-CA-CB-CG
1	A	1	KKD	N-CA-CB-CG
1	A	1	KKD	CB-CA-N-CT1
1	A	1	KKD	C-CA-N-CT1



There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

Of 8 ligands modelled in this entry, 1 is 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).

Mal	Trino	Chain	Dag	T inle	В	ond leng	$_{ m gths}$	Bond angles		
Mol	Type	Chain	Res	Link	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
7	GOL	A	404	-	5,5,5	0.77	0	5,5,5	0.97	0
5	ATP	A	401	4	26,33,33	0.99	2 (7%)	31,52,52	1.50	5 (16%)
8	ACO	N	400	-	45,53,53	4.17	16 (35%)	56,79,79	1.41	8 (14%)
7	GOL	N	402	_	5,5,5	0.70	0	5,5,5	0.79	0
6	LAB	A	402	-	28,29,29	5.46	16 (57%)	30,41,41	4.57	10 (33%)
7	GOL	A	403	_	5,5,5	0.75	0	5,5,5	1.10	0
9	MES	N	401	_	12,12,12	2.12	1 (8%)	14,16,16	1.55	3 (21%)

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
7	GOL	A	404	-	-	2/4/4/4	-
5	ATP	A	401	4	-	3/18/38/38	0/3/3/3
8	ACO	N	400	-	-	11/47/67/67	0/3/3/3
7	GOL	N	402	-	-	4/4/4/4	-
6	LAB	A	402	-	-	5/21/49/49	0/2/3/3
7	GOL	A	403	-	-	2/4/4/4	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
9	MES	N	401	-	-	1/6/14/14	0/1/1/1

The worst 5 of 35 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	Observed(A)	$Ideal(\AA)$
6	A	402	LAB	C16-N1	19.84	1.73	1.46
8	N	400	ACO	O4B-C1B	18.60	1.67	1.41
8	N	400	ACO	C2B-C1B	-14.02	1.32	1.53
6	A	402	LAB	C2-C3	11.43	1.55	1.33
9	N	401	MES	C8-S	-7.05	1.67	1.77

The worst 5 of 26 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
6	A	402	LAB	C17-S1-C18	22.94	104.31	92.00
8	N	400	ACO	N3A-C2A-N1A	-5.48	120.11	128.68
6	A	402	LAB	O3-C11-C12	-4.82	99.86	108.94
5	A	401	ATP	N3-C2-N1	-3.79	122.75	128.68
8	N	400	ACO	C5A-C6A-N6A	3.71	126.00	120.35

There are no chirality outliers.

5 of 28 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	A	401	ATP	PB-O3B-PG-O3G
6	A	402	LAB	O3-C15-C16-C17
7	A	404	GOL	C1-C2-C3-O3
7	N	402	GOL	O1-C1-C2-C3
8	N	400	ACO	C5B-O5B-P1A-O1A

There are no ring outliers.

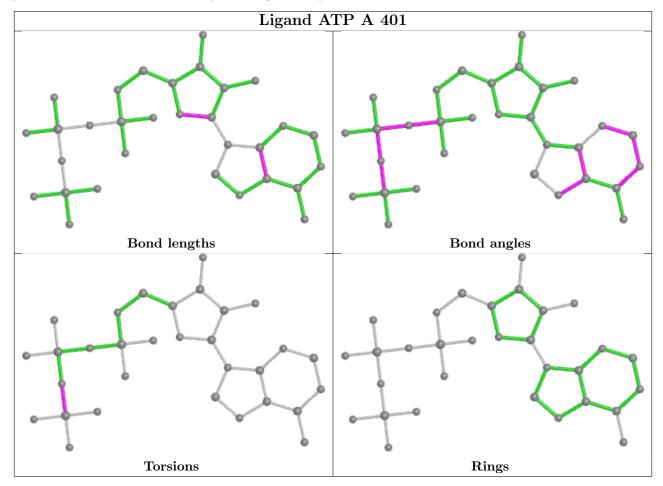
3 monomers are involved in 7 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	A	401	ATP	2	0
8	N	400	ACO	1	0
6	A	402	LAB	4	0

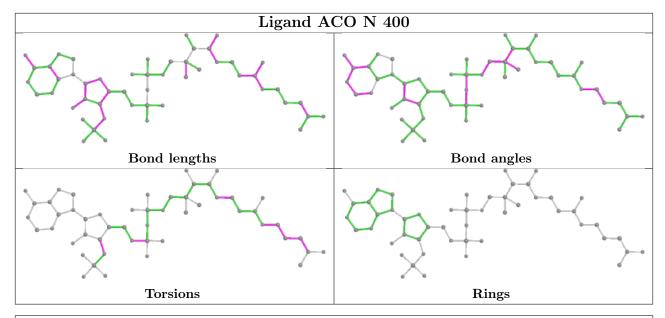
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will

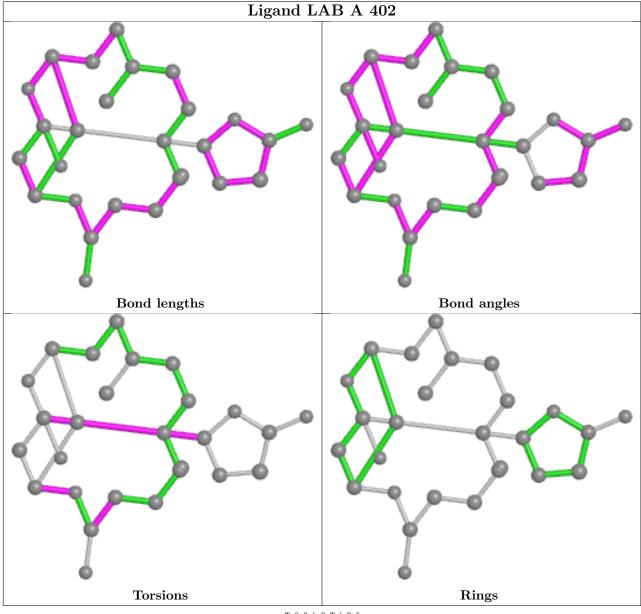


also be included. For torsion angles, if less then 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted 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	368/375~(98%)	0.07	10 (2%) 54 50	24, 34, 52, 92	0
2	N	180/235 (76%)	0.51	29 (16%) 1 1	24, 32, 90, 110	0
3	P	138/140 (98%)	0.46	11 (7%) 12 9	32, 45, 76, 91	0
All	All	686/750 (91%)	0.27	50 (7%) 15 11	24, 36, 75, 110	0

The worst 5 of 50 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	N	75	GLY	7.1
1	A	47	MET	6.9
2	N	269	LEU	5.5
2	N	271	GLU	5.3
2	N	76	HIS	5.3

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	$\operatorname{B-factors}(\mathbf{A}^2)$	Q<0.9
1	KKD	A	1	11/12	0.87	0.27	26,38,51,55	0
1	HIC	A	73	11/12	0.97	0.15	26,32,39,39	0

6.3 Carbohydrates (i)

There are no monosaccharides in this entry.

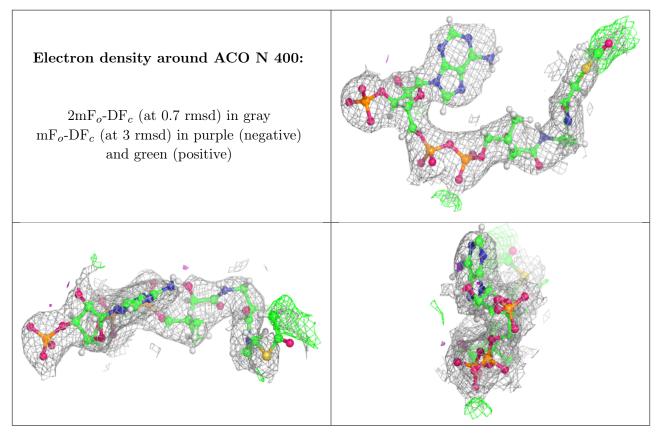


6.4 Ligands (i)

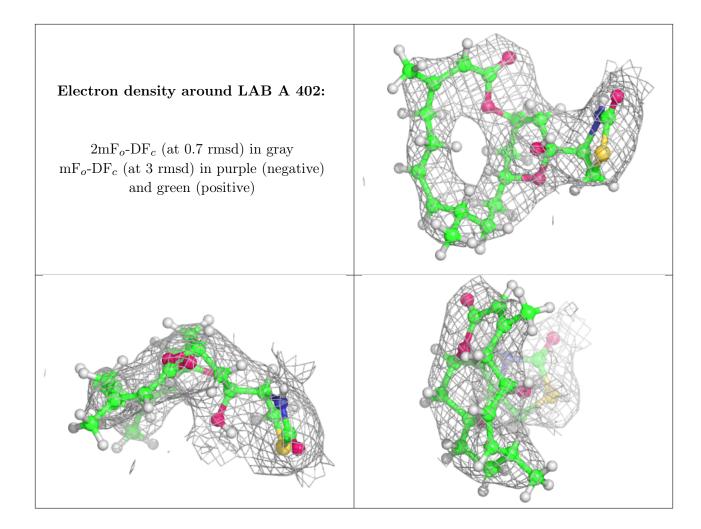
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' 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
7	GOL	N	402	6/6	0.82	0.71	40,48,56,57	0
7	GOL	A	404	6/6	0.84	0.34	41,49,55,60	0
9	MES	N	401	12/12	0.90	0.26	39,49,64,74	0
7	GOL	A	403	6/6	0.91	0.26	39,50,60,60	0
8	ACO	N	400	51/51	0.93	0.17	23,34,51,54	6
6	LAB	A	402	27/27	0.94	0.21	19,27,33,36	0
4	CA	A	400	1/1	0.94	0.31	34,34,34,34	0
5	ATP	A	401	31/31	0.96	0.18	20,26,35,36	0

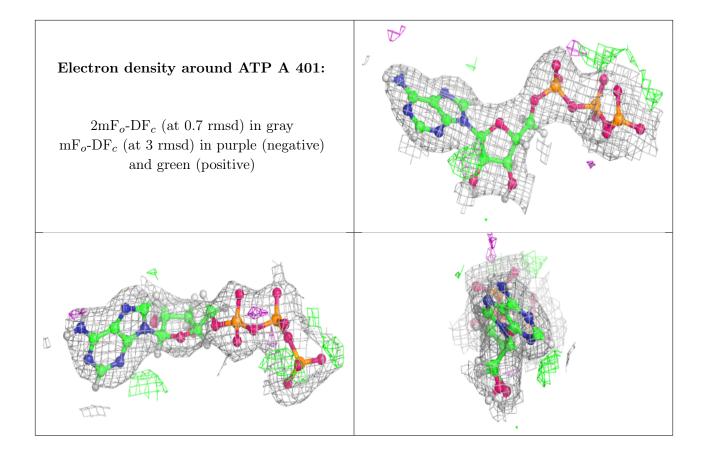
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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











6.5 Other polymers (i)

There are no such residues in this entry.

