

wwPDB X-ray Structure Validation Summary Report (i)

Sep 20, 2023 – 06:22 AM EDT

PDB ID	:	5HMN
Title	:	Crystal structure of an aminoglycoside acetyltransferase HMB0005 from an
		uncultured soil metagenomic sample, unknown active site density modeled as
		polyethylene glycol
Authors	:	Xu, Z.; Stogios, P.J.; Wawrzak, Z.; Skarina, T.; Yim, V.; Savchenko, A.; An-
		derson, W.F.; Center for Structural Genomics of Infectious Diseases (CSGID)
Deposited on	:	2016-01-16
Resolution	:	2.02 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 : 2.35.1	
buster-report : $1.1.7$ (2018)	
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2	019)
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) : 2.35.1	

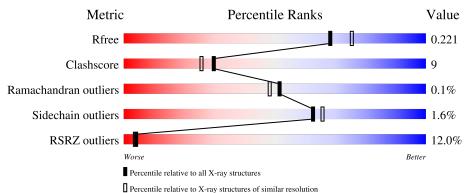


1 Overall quality at a glance (i)

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

The reported resolution of this entry is 2.02 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	$\begin{array}{l} \textbf{Whole archive} \\ \textbf{(\#Entries)} \end{array}$	${f Similar\ resolution}\ (\#{ m Entries,\ resolution\ range}({ m \AA}))$
R_{free}	130704	$10434 \ (2.04-2.00)$
Clashscore	141614	11643 (2.04-2.00)
Ramachandran outliers	138981	11493 (2.04-2.00)
Sidechain outliers	138945	11492 (2.04-2.00)
RSRZ outliers	127900	10220 (2.04-2.00)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions <=5% The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chair	n
1	А	159	% • 87%	00/ 50/
	Π	105	6%	8% 5%
1	В	159	87%	12% •
1	С	159	8%	16% •
1	D	159	82%	13% ••
1	Е	159	19%	21% 5%



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Mol	Chain	Length	Quality of chain		
			25%		
1	F	159	65%	28%	• 5%

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
2	COA	В	500	-	-	-	Х
3	PG4	А	202[A]	-	-	Х	-



2 Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 8407 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.

Mol	Chain	Residues		At	oms			ZeroOcc	AltConf	Trace
1	А	151	Total	С	Ν	0	S	0	3	0
	Л	101	1207	774	203	228	2	0	5	0
1	В	159	Total	С	Ν	Ο	\mathbf{S}	0	4	0
1	D	109	1270	814	211	242	3	0	4	U
1	С	152	Total	С	Ν	Ο	\mathbf{S}	0	1	0
1	U	152	1201	770	200	228	3	0		0
1	D	154	Total	С	Ν	Ο	\mathbf{S}	0	1	0
1	D	104	1218	780	203	232	3	0	L	U
1	Е	151	Total	С	Ν	Ο	\mathbf{S}	0	1	0
1	Ľ	101	1193	763	199	229	2	0	1	0
1	F	151	Total	С	Ν	Ο	S	0	0	0
	T,	101	1188	760	199	227	27 2			U

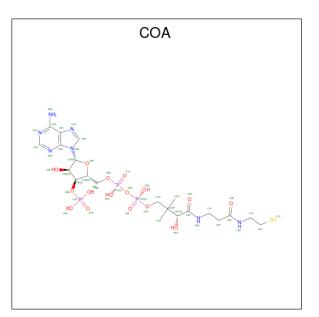
• Molecule 1 is a protein called AAC3-I.

There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
А	-1	GLN	-	expression tag	UNP A0A059WV44
A	0	SER	-	expression tag	UNP A0A059WV44
В	-1	GLN	-	expression tag	UNP A0A059WV44
В	0	SER	-	expression tag	UNP A0A059WV44
С	-1	GLN	-	expression tag	UNP A0A059WV44
С	0	SER	-	expression tag	UNP A0A059WV44
D	-1	GLN	-	expression tag	UNP A0A059WV44
D	0	SER	-	expression tag	UNP A0A059WV44
Е	-1	GLN	-	expression tag	UNP A0A059WV44
Е	0	SER	-	expression tag	UNP A0A059WV44
F	-1	GLN	-	expression tag	UNP A0A059WV44
F	0	SER	-	expression tag	UNP A0A059WV44

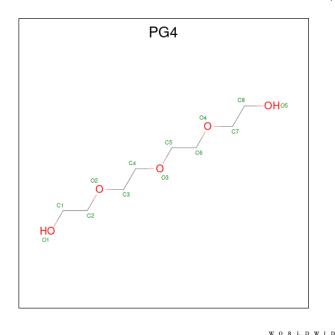
• Molecule 2 is COENZYME A (three-letter code: COA) (formula: $C_{21}H_{36}N_7O_{16}P_3S$).





Mol	Chain	Residues		Atoms					ZeroOcc	AltConf
2	Λ	1	Total	С	Ν	Ο	Р	\mathbf{S}	0	1
	Л	1	96	42	14	32	6	2	0	T
2	В	1	Total	С	Ν	Ο	Р	S	0	0
	D	1	48	21	7	16	3	1	0	0
2	С	1	Total	С	Ν	Ο	Р	\mathbf{S}	0	1
	U	1	96	42	14	32	6	2	0	T
2	E	1	Total	С	Ν	Ο	Р	S	0	0
	Ľ	1	48	21	7	16	3	1	0	0
2	F	1	Total	С	Ν	Ο	Р	S	0	0
	Г	1	48	21	7	16	3	1	0	0

• Molecule 3 is TETRAETHYLENE GLYCOL (three-letter code: PG4) (formula: $C_8H_{18}O_5$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	А	1	Total 26	C 16	O 10	0	1

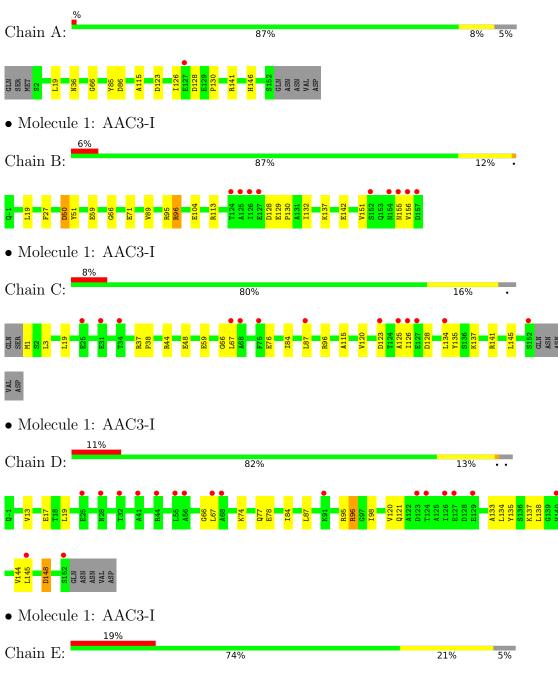
• Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	А	176	Total O 186 186	0	10
4	В	185	Total O 194 194	0	9
4	С	143	Total O 145 145	0	2
4	D	109	Total O 111 111	0	2
4	Е	84	Total O 84 84	0	0
4	F	47	Total O 48 48	0	1



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.

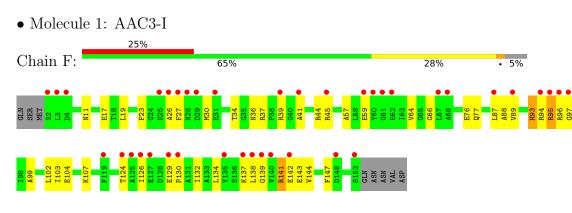


• Molecule 1: AAC3-I



GLN GLN SER MEC L13 L14 L19 L19 L19 L19 L19 L19 M30 B10 M30 B10 M30 B10 M31 L67 A41 R45 R45 R45 R45 R44 R45 R45 R46 L67 L67 L68 R46 R48 R48 R48 R48 R48 R48







4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants	58.27Å 62.76Å 253.61Å	Depositor
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	19.87 - 2.02	Depositor
Resolution (A)	19.87 - 2.02	EDS
% Data completeness	99.6 (19.87-2.02)	Depositor
(in resolution range)	96.7(19.87-2.02)	EDS
R _{merge}	0.05	Depositor
R _{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	4.02 (at 2.02Å)	Xtriage
Refinement program	PHENIX 1.9_1692	Depositor
D D.	0.191 , 0.221	Depositor
R, R_{free}	0.192 , 0.221	DCC
R_{free} test set	1995 reflections (3.22%)	wwPDB-VP
Wilson B-factor $(Å^2)$	34.6	Xtriage
Anisotropy	0.124	Xtriage
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	0.32, 60.3	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	0.96	EDS
Total number of atoms	8407	wwPDB-VP
Average B, all atoms $(Å^2)$	59.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 19.79% of the height of the origin peak. No significant pseudotranslation is detected.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.



¹Intensities estimated from amplitudes.

5 Model quality (i)

5.1 Standard geometry (i)

Bond lengths and bond angles in the following residue types are not validated in this section: PG4, COA

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	Unam	RMSZ	# Z > 5	RMSZ	# Z > 5
1	А	0.43	0/1237	0.51	0/1672
1	В	0.40	0/1303	0.52	0/1763
1	С	0.28	0/1225	0.47	0/1656
1	D	0.42	0/1243	0.58	0/1680
1	Ε	0.38	0/1217	0.53	0/1646
1	F	0.48	0/1209	0.66	0/1635
All	All	0.40	0/7434	0.55	0/10052

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts (i)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	А	1207	0	1214	12	0
1	В	1270	0	1282	16	0
1	С	1201	0	1205	19	0
1	D	1218	0	1212	18	0
1	Е	1193	0	1186	34	0
1	F	1188	0	1182	50	0
2	А	96	0	62	3	0



Mol	Chain	Non-H	1 0	H(added)	Clashes	Symm-Clashes
2	В	48	0	32	8	0
2	С	96	0	62	1	0
2	Е	48	0	31	11	0
2	F	48	0	32	16	0
3	А	26	0	36	7	0
4	А	186	0	0	1	0
4	В	194	0	0	6	0
4	С	145	0	0	0	0
4	D	111	0	0	0	0
4	Ε	84	0	0	2	0
4	F	48	0	0	0	0
All	All	8407	0	7536	142	0

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The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 9.

The worst 5 of 142 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:95:ARG:NH1	2:F:500:COA:O8A	1.65	1.27
2:B:500:COA:O4B	2:B:500:COA:C1B	1.65	1.21
2:F:500:COA:O4B	2:F:500:COA:C1B	1.65	1.16
1:C:135:TYR:HH	2:C:500[A]:COA:HS1	0.98	0.90
1:E:94:ARG:NH1	2:E:500:COA:H72	1.87	0.90

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	Analysed Favoured Allor		Outliers	Percentiles
1	А	152/159~(96%)	150 (99%)	2(1%)	0	100 100



Mol	Chain	Analysed	Favoured	Allowed	Outliers	Perce	ntiles
1	В	161/159~(101%)	156~(97%)	5(3%)	0	100	100
1	\mathbf{C}	151/159~(95%)	146 (97%)	5(3%)	0	100	100
1	D	153/159~(96%)	146~(95%)	7~(5%)	0	100	100
1	Ε	150/159~(94%)	138~(92%)	10 (7%)	2(1%)	12	5
1	F	149/159~(94%)	145~(97%)	4(3%)	0	100	100
All	All	916/954~(96%)	881 (96%)	33 (4%)	2~(0%)	51	43

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All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	Ε	123[A]	ASP
1	Е	123[B]	ASP

5.3.2 Protein sidechains (i)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	А	123/128~(96%)	122~(99%)	1 (1%)	81 85
1	В	132/128~(103%)	129~(98%)	3 (2%)	50 51
1	С	122/128~(95%)	121~(99%)	1 (1%)	81 85
1	D	123/128~(96%)	120 (98%)	3 (2%)	49 49
1	Ε	121/128~(94%)	121 (100%)	0	100 100
1	F	120/128~(94%)	116 (97%)	4 (3%)	38 36
All	All	741/768~(96%)	729~(98%)	12 (2%)	62 66

5 of 12 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	D	148	ASP
1	F	30	MET
1	F	141	ARG
1	F	93	HIS



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Mol	Chain	Res	Type
1	В	96	ARG

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

Mol	Chain	Res	Type
1	А	146	HIS

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)

9 ligands 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).

Mol	ol Type Chain Res		Link	В	ond leng	gths	Bond angles			
	Iol Type Chain	Res Link		Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2	
3	PG4	А	202[A]	-	$12,\!12,\!12$	0.51	0	11,11,11	0.50	0
2	COA	F	500	-	$41,\!50,\!50$	4.03	10 (24%)	52,75,75	1.97	11 (21%)
2	COA	Е	500	-	41,50,50	4.10	19 (46%)	52,75,75	1.95	5 (9%)
2	COA	А	201[B]	-	41,50,50	4.11	19 (46%)	52,75,75	1.95	5 (9%)
2	COA	С	500[B]	-	41,50,50	<mark>3.95</mark>	19 (46%)	52,75,75	2.01	11 (21%)
2	COA	В	500	-	41,50,50	4.07	10 (24%)	52,75,75	1.83	6 (11%)



Mol	Turne	Type Chain		Link	Bond lengths			Bond angles		
MOI Type	Type	Chain	Res		Counts	RMSZ	# Z >2	Counts	RMSZ	# Z >2
2	COA	А	201[A]	-	$41,\!50,\!50$	4.06	19 (46%)	52,75,75	1.95	5 (9%)
2	COA	С	500[A]	-	41,50,50	3.94	19 (46%)	52,75,75	1.96	9 (17%)
3	PG4	А	202[B]	-	$12,\!12,\!12$	0.51	0	11,11,11	0.51	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
3	PG4	А	202[A]	-	-	5/10/10/10	-
2	COA	F	500	-	-	17/44/64/64	0/3/3/3
2	COA	Е	500	-	-	6/44/64/64	0/3/3/3
2	COA	А	201[B]	-	-	6/44/64/64	0/3/3/3
2	COA	С	500[B]	-	-	11/44/64/64	0/3/3/3
2	COA	В	500	-	-	11/44/64/64	0/3/3/3
2	COA	А	201[A]	-	-	6/44/64/64	0/3/3/3
2	COA	С	500[A]	-	-	10/44/64/64	0/3/3/3
3	PG4	А	202[B]	-	-	7/10/10/10	-

The worst 5 of 115 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	В	500	COA	O4B-C1B	17.74	1.65	1.41
2	F	500	COA	O4B-C1B	17.13	1.65	1.41
2	А	201[B]	COA	O4B-C1B	15.98	1.63	1.41
2	Е	500	COA	O4B-C1B	15.95	1.63	1.41
2	А	201[A]	COA	O4B-C1B	15.90	1.63	1.41

The worst 5 of 52 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
2	А	201[A]	COA	C5A-C6A-N6A	9.87	135.34	120.35
2	Е	500	COA	C5A-C6A-N6A	9.78	135.22	120.35
2	А	201[B]	COA	C5A-C6A-N6A	9.76	135.18	120.35
2	С	500[B]	COA	C5A-C6A-N6A	8.93	133.92	120.35
2	С	500[A]	COA	C5A-C6A-N6A	8.83	133.78	120.35

There are no chirality outliers.



Mol	Chain	Res	Type	Atoms
2	А	201[A]	COA	C3B-O3B-P3B-O8A
2	А	201[A]	COA	C5B-O5B-P1A-O1A
2	А	201[A]	COA	C5B-O5B-P1A-O2A
2	А	201[A]	COA	CCP-O6A-P2A-O3A
2	А	201[B]	COA	C3B-O3B-P3B-O8A

5 of 79 torsion outliers are listed below:

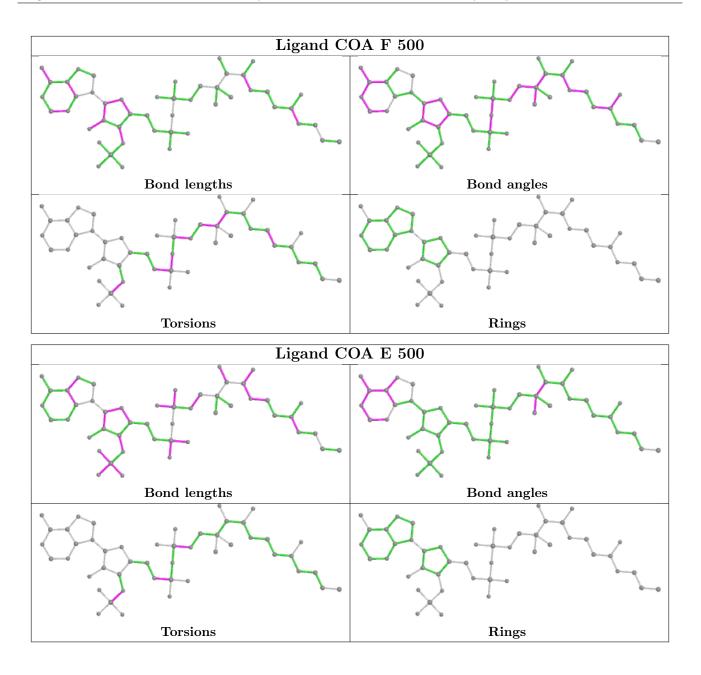
There are no ring outliers.

7 monomers are involved in 45 short contacts:

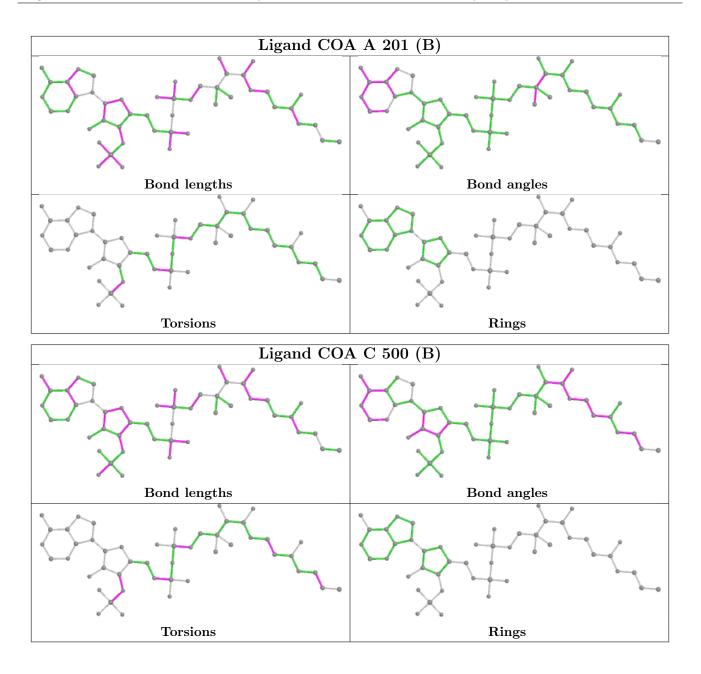
Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	А	202[A]	PG4	7	0
2	F	500	COA	16	0
2	Е	500	COA	11	0
2	А	201[B]	COA	1	0
2	В	500	COA	8	0
2	А	201[A]	COA	2	0
2	С	500[A]	COA	1	0

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.

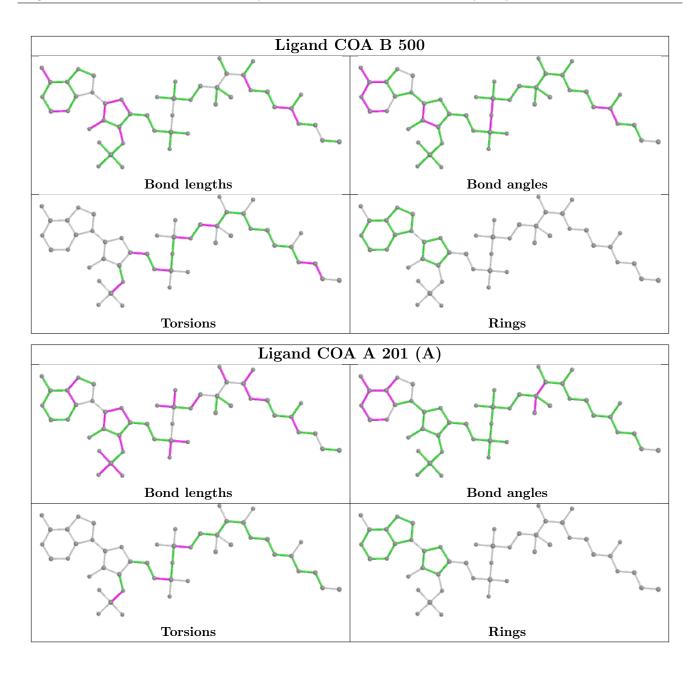




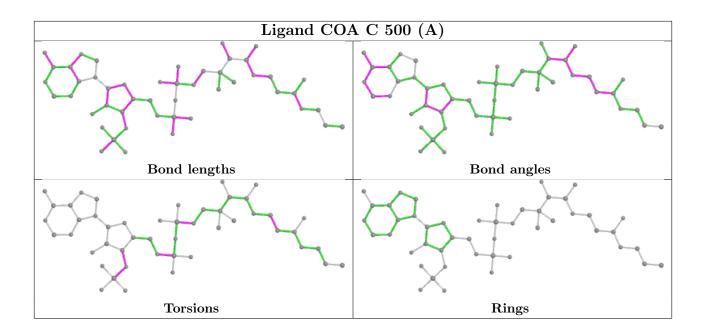












5.7 Other polymers (i)

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	$\langle RSRZ \rangle$	#RSRZ>2	$\mathbf{OWAB}(\mathbf{A}^2)$	$Q{<}0.9$
1	А	151/159~(94%)	0.04	1 (0%) 87 87	21, 34, 65, 91	0
1	В	159/159~(100%)	0.25	9 (5%) 23 23	19, 37, 78, 134	0
1	С	152/159~(95%)	0.49	13 (8%) 10 10	23, 48, 82, 121	0
1	D	154/159~(96%)	0.66	18 (11%) 4 4	32, 56, 103, 149	0
1	Ε	151/159~(94%)	1.00	30 (19%) 1 0	36, 68, 101, 113	0
1	F	151/159~(94%)	1.32	39 (25%) 0 0	38, 72, 132, 162	0
All	All	918/954~(96%)	0.63	110 (11%) 4 4	19, 53, 107, 162	0

The worst 5 of 110 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	F	96	ARG	8.6
1	F	126	ILE	8.1
1	D	126	ILE	7.6
1	Е	126	ILE	6.4
1	F	25	GLU	6.1

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.

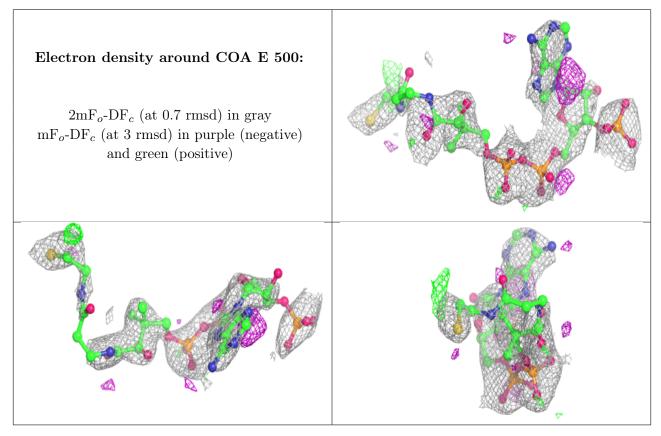


6.4 Ligands (i)

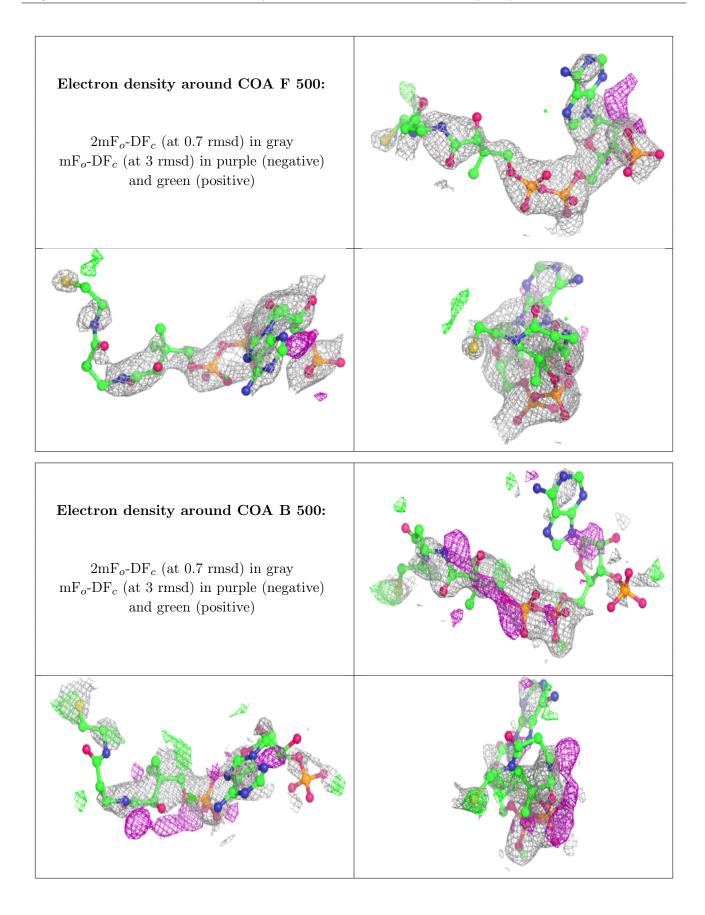
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9'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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-factors}(\mathrm{\AA}^2)$	Q<0.9
3	PG4	А	202[A]	13/13	0.51	0.34	66,79,84,88	13
3	PG4	А	202[B]	13/13	0.51	0.34	$63,\!81,\!86,\!87$	13
2	COA	Е	500	48/48	0.66	0.33	72,108,144,145	0
2	COA	F	500	48/48	0.69	0.30	89,124,153,215	0
2	COA	В	500	48/48	0.74	0.41	$75,\!177,\!238,\!250$	0
2	COA	С	500[A]	48/48	0.93	0.13	30,53,71,75	48
2	COA	С	500[B]	48/48	0.93	0.13	30,53,71,75	48
2	COA	А	201[B]	48/48	0.94	0.12	27,42,63,79	48
2	COA	А	201[A]	48/48	0.94	0.12	27,42,63,79	48

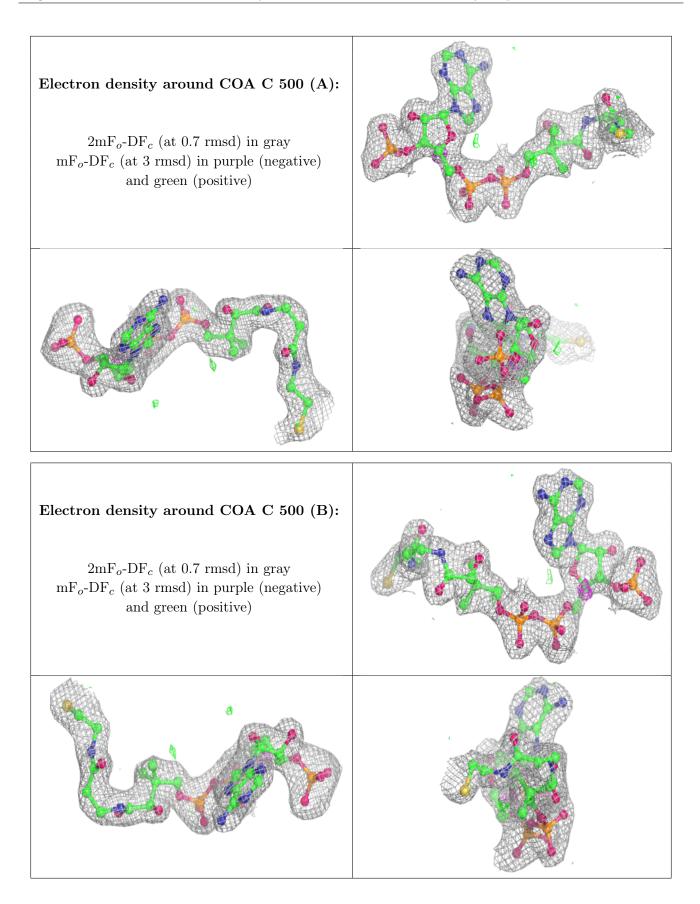
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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



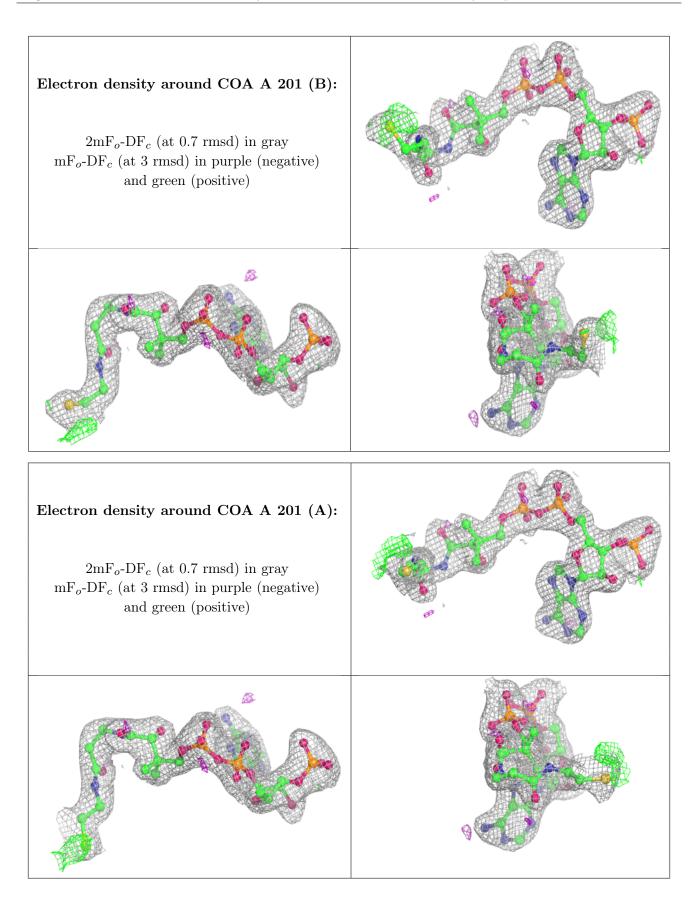














6.5 Other polymers (i)

There are no such residues in this entry.

