wwPDB X-ray Structure Validation Summary Report (i)

Jan 15, 2024 – 11:23 am GMT

PDB ID	:	6HSN
Title	:	Crystal structure of the ternary complex of GephE-ADP-GABA(A) receptor derived peptide
Authors	:	Kasaragod, V.B.; Schindelin, H.
Deposited on	:	2018-10-01
Resolution	:	1.55 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 (i)) were used in the production of this report:

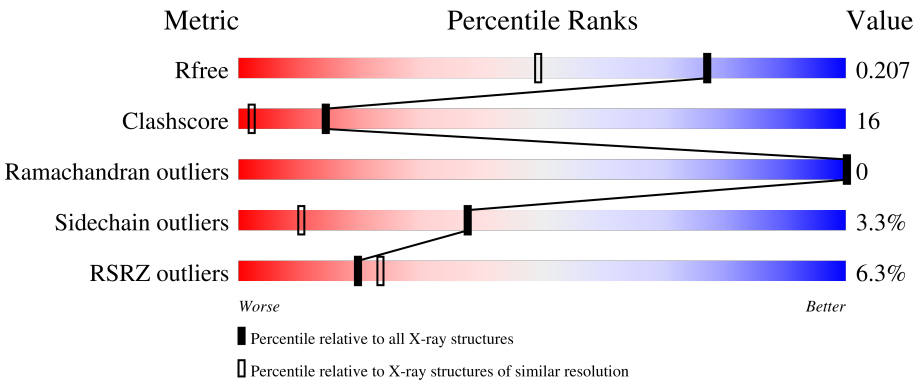
MolProbity	:	4.02b-467
Mogul	:	1.8.4, CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.36
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
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-RAY DIFFRACTION

The reported resolution of this entry is 1.55 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 (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	1483 (1.56-1.56)
Clashscore	141614	1529 (1.56-1.56)
Ramachandran outliers	138981	1498 (1.56-1.56)
Sidechain outliers	138945	1495 (1.56-1.56)
RSRZ outliers	127900	1465 (1.56-1.56)

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	419	5%, 80%, 16%, • •
2	D	10	30%, 100%
2	E	10	30%, 90%, 10%

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
5	MPD	A	805	-	-	X	-
5	MPD	A	806	X	-	X	-
6	ACT	A	811	-	-	X	-
6	ACT	A	813	-	-	X	-

2 Entry composition (i)

There are 10 unique types of molecules in this entry. The entry contains 7895 atoms, of which 3758 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 Gephyrin.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
			Total	C	H	N	O	S			
1	A	411	6889	2163	3514	561	624	27	143	41	0

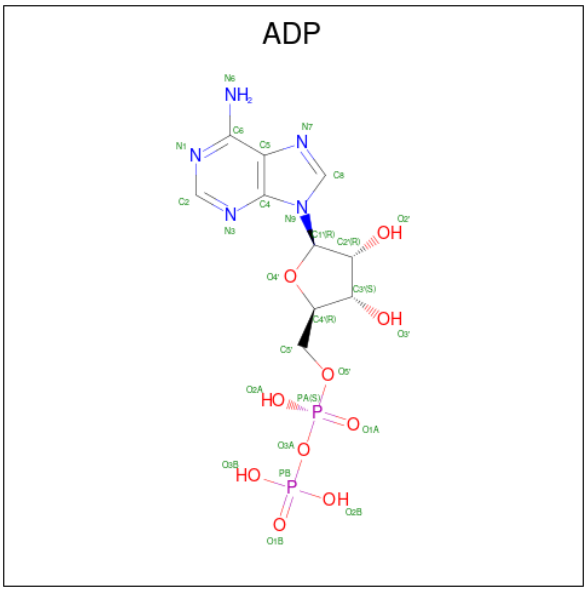
- Molecule 2 is a protein called Gamma-aminobutyric acid receptor subunit alpha-3.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
			Total	C	H	N	O	S			
2	D	10	153	51	75	11	15	1	5	0	0
2	E	10	153	51	75	11	15	1	5	0	0

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
D	377	CYS	ILE	conflict	UNP P20236
E	377	CYS	ILE	conflict	UNP P20236

- Molecule 3 is ADENOSINE-5'-DIPHOSPHATE (three-letter code: ADP) (formula: $C_{10}H_{15}N_5O_{10}P_2$).

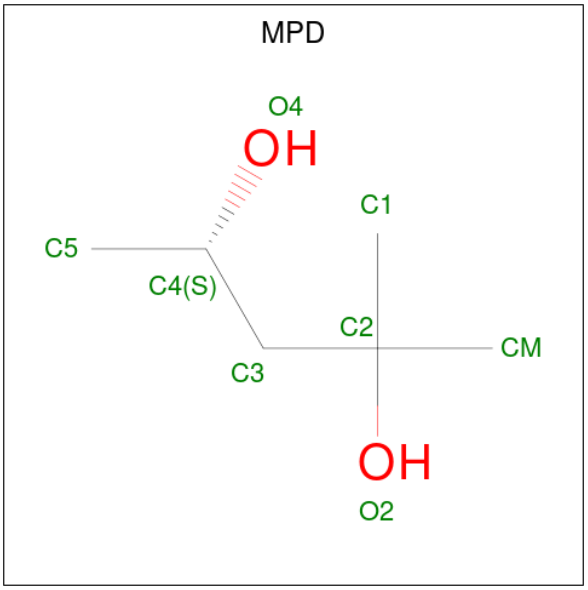


Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
			Total	C	H	N	O	P		
3	A	1	39	10	12	5	10	2	4	0

- Molecule 4 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

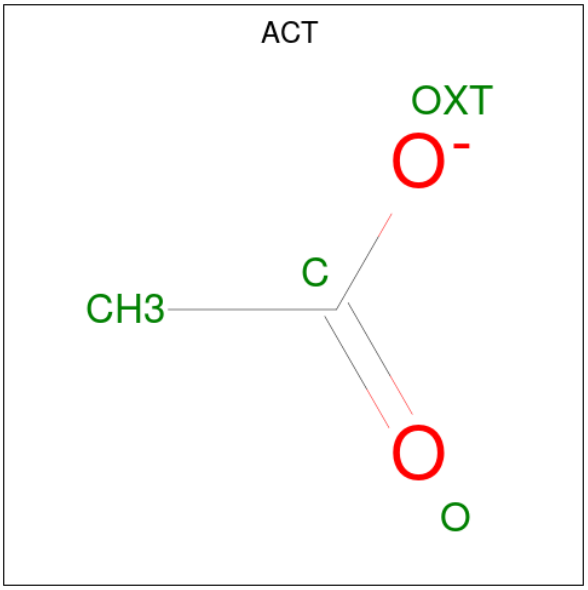
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	Mg		
4	A	2	2	2	0	0

- Molecule 5 is (4S)-2-METHYL-2,4-PENTANEDIOL (three-letter code: MPD) (formula: $C_6H_{14}O_2$).



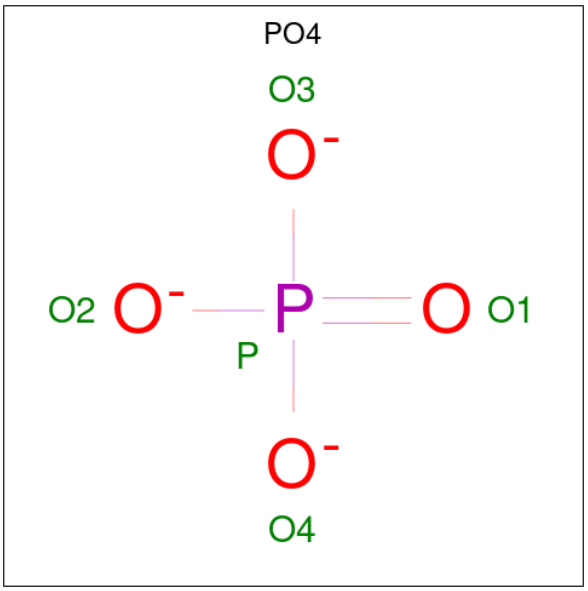
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
5	A	1	Total 22	C 6	H 14	O 2	1	0
5	A	1	Total 22	C 6	H 14	O 2	1	0
5	A	1	Total 22	C 6	H 14	O 2	1	0

- Molecule 6 is ACETATE ION (three-letter code: ACT) (formula: $C_2H_3O_2$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
6	A	1	Total 7	C 2	H 3	O 2	0	0
6	A	1	Total 7	C 2	H 3	O 2	0	0
6	A	1	Total 7	C 2	H 3	O 2	0	0
6	A	1	Total 7	C 2	H 3	O 2	0	0
6	A	1	Total 7	C 2	H 3	O 2	0	0
6	A	1	Total 7	C 2	H 3	O 2	0	0
6	A	1	Total 7	C 2	H 3	O 2	0	0
6	A	1	Total 7	C 2	H 3	O 2	0	0

- Molecule 7 is PHOSPHATE ION (three-letter code: PO4) (formula: O_4P).

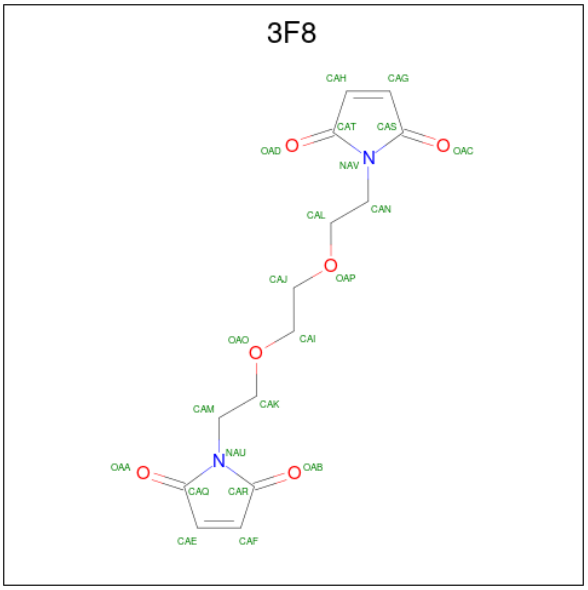


Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	A	1	Total O P 5 4 1	0	0

- Molecule 8 is SODIUM ION (three-letter code: NA) (formula: Na).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
8	A	1	Total Na 2 2	0	1

- Molecule 9 is 1,1'-[ethane-1,2-diylbis(oxyethane-2,1-diyl)]bis(1H-pyrrole-2,5-dione) (three-letter code: 3F8) (formula: $C_{14}H_{16}N_2O_6$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	H	N	O		
9	D	1	38	14	16	2	6	0	0

- Molecule 10 is water.

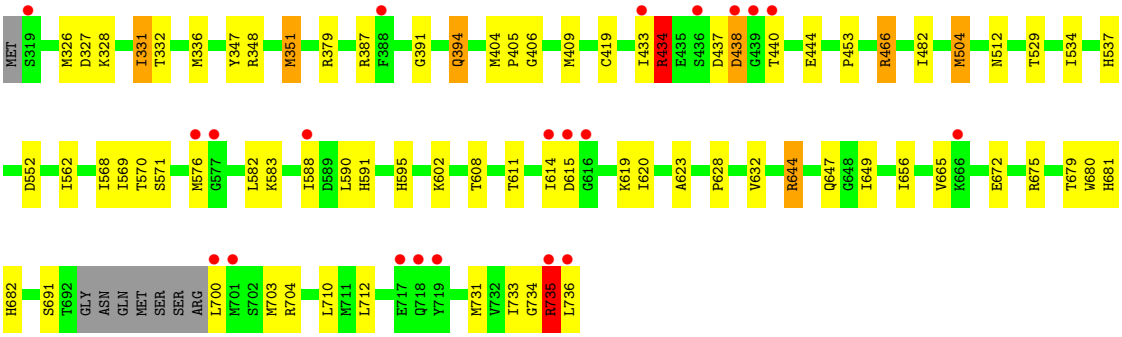
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	O		
10	A	470	482	482	0	12
			Total	O		
10	D	6	6	6	0	0
			Total	O		
10	E	4	4	4	0	0

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.

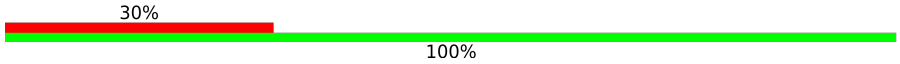
• Molecule 1: Gephyrin

Chain A:



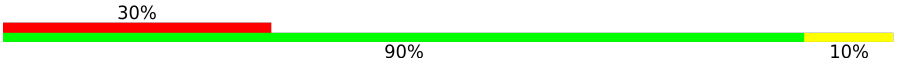
• Molecule 2: Gamma-aminobutyric acid receptor subunit alpha-3

Chain D:



• Molecule 2: Gamma-aminobutyric acid receptor subunit alpha-3

Chain E:



4 Data and refinement statistics (i)

Property	Value	Source
Space group	I 2 2 2	Depositor
Cell constants a, b, c, α, β, γ	86.96Å 99.22Å 111.61Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	30.00 – 1.55 43.48 – 1.55	Depositor EDS
% Data completeness (in resolution range)	98.5 (30.00-1.55) 98.5 (43.48-1.55)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.76 (at 1.55Å)	Xtriage
Refinement program	REFMAC 5.8.0238	Depositor
R, R_{free}	0.159 , 0.196 0.173 , 0.207	Depositor DCC
R_{free} test set	3468 reflections (5.02%)	wwPDB-VP
Wilson B-factor (Å^2)	18.6	Xtriage
Anisotropy	0.263	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.38 , 51.0	EDS
L-test for twinning[2]	$< \|L\| > = 0.48$, $< L^2 > = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.97	EDS
Total number of atoms	7895	wwPDB-VP
Average B, all atoms (Å^2)	31.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.12% of the height of the origin peak. No significant pseudotranslation is detected.*

[1]Intensities estimated from amplitudes.

[2]Theoretical 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.

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: ACT, ADP, PO4, NA, MPD, MG, 3F8

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	
		RMSZ	$\#\|Z\|>5$	RMSZ	$\#\|Z\|>5$
1	A	0.74	0/3541	0.94	9/4809 (0.2%)
2	D	0.53	0/80	0.75	0/108
2	E	0.54	0/80	0.74	0/108
All	All	0.73	0/3701	0.93	9/5025 (0.2%)

There are no bond length outliers.

The worst 5 of 9 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	434	ARG	NE-CZ-NH2	9.22	124.91	120.30
1	A	735	ARG	NE-CZ-NH2	7.50	124.05	120.30
1	A	735	ARG	CB-CA-C	6.78	123.96	110.40
1	A	735	ARG	CG-CD-NE	6.23	124.89	111.80
1	A	504	MET	CG-SD-CE	-5.69	91.10	100.20

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	3375	3514	3531	92	5
2	D	78	75	71	0	0
2	E	78	75	71	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	A	27	12	12	0	0
4	A	2	0	0	0	0
5	A	24	42	41	21	1
6	A	32	24	24	7	1
7	A	5	0	0	0	0
8	A	2	0	0	0	0
9	D	22	16	14	6	0
10	A	482	0	0	26	7
10	D	6	0	0	0	0
10	E	4	0	0	0	0
All	All	4137	3758	3764	115	12

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 16.

The worst 5 of 115 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)
5:A:806:MPD:H51	6:A:813:ACT:O	1.35	1.24
1:A:433[C]:ILE:C	1:A:433[C]:ILE:HD12	1.59	1.23
1:A:433[C]:ILE:HD12	1:A:433[C]:ILE:O	1.48	1.10
1:A:433[B]:ILE:HG22	1:A:434:ARG:HD2	1.38	1.03
5:A:805:MPD:HM3	10:A:903:HOH:O	1.63	0.98

The worst 5 of 12 symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:A:1188:HOH:O	10:A:1188:HOH:O[3_659]	1.37	0.83
1:A:379:ARG:HH12	1:A:379:ARG:HH12[3_6510]	0.99	0.61
1:A:736:LEU:HD11	1:A:736:LEU:HD11[3_659]	1.01	0.59
10:A:902:HOH:O	10:A:902:HOH:O[2_655]	1.64	0.56
1:A:537:HIS:HE2	5:A:806:MPD:H52[3_659]	1.24	0.36

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	449/419 (107%)	442 (98%)	7 (2%)	0	100	100
2	D	8/10 (80%)	8 (100%)	0	0	100	100
2	E	8/10 (80%)	8 (100%)	0	0	100	100
All	All	465/439 (106%)	458 (98%)	7 (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	390/356 (110%)	374 (96%)	16 (4%)	30	5
2	D	9/9 (100%)	9 (100%)	0	100	100
2	E	9/9 (100%)	9 (100%)	0	100	100
All	All	408/374 (109%)	392 (96%)	16 (4%)	38	6

5 of 16 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	647	GLN
1	A	614	ILE
1	A	440	THR
1	A	582	LEU
1	A	438	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (4) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	398	GLN
1	A	462	HIS
1	A	537	HIS
1	A	591	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)

Of 18 ligands modelled in this entry, 4 are monoatomic - leaving 14 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		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
3	ADP	A	801	4	24,29,29	0.82	1 (4%)	29,45,45	0.96	2 (6%)
5	MPD	A	806	-	7,7,7	0.77	0	9,10,10	1.46	2 (22%)
5	MPD	A	804	-	7,7,7	0.43	0	9,10,10	1.02	1 (11%)
6	ACT	A	811	-	3,3,3	0.94	0	3,3,3	0.88	0
6	ACT	A	812	-	3,3,3	1.34	0	3,3,3	0.49	0
7	PO4	A	815	-	4,4,4	0.66	0	6,6,6	0.51	0
9	3F8	D	401	2	23,23,23	3.80	8 (34%)	30,30,30	3.02	11 (36%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
5	MPD	A	805	-	7,7,7	1.09	1 (14%)	9,10,10	0.77	0
6	ACT	A	808	-	3,3,3	0.88	0	3,3,3	0.90	0
6	ACT	A	810	-	3,3,3	1.03	0	3,3,3	0.79	0
6	ACT	A	807	-	3,3,3	0.92	0	3,3,3	0.90	0
6	ACT	A	814	-	3,3,3	0.93	0	3,3,3	0.75	0
6	ACT	A	809	-	3,3,3	0.90	0	3,3,3	0.91	0
6	ACT	A	813	-	3,3,3	1.66	2 (66%)	3,3,3	0.44	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	ADP	A	801	4	-	1/12/32/32	0/3/3/3
5	MPD	A	806	-	1/1/2/2	2/5/5/5	-
5	MPD	A	804	-	-	3/5/5/5	-
9	3F8	D	401	2	-	2/11/37/37	0/2/2/2
5	MPD	A	805	-	-	0/5/5/5	-

The worst 5 of 12 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	D	401	3F8	CAE-CAQ	-8.26	1.33	1.48
9	D	401	3F8	CAF-CAR	-8.16	1.33	1.48
9	D	401	3F8	CAH-CAT	-8.15	1.33	1.48
9	D	401	3F8	CAG-CAS	-8.05	1.33	1.48
9	D	401	3F8	CAT-NAV	-4.18	1.32	1.40

The worst 5 of 16 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	D	401	3F8	CAR-NAU-CAQ	-6.96	104.33	109.95
9	D	401	3F8	CAM-NAU-CAR	6.79	134.20	124.88
9	D	401	3F8	CAT-NAV-CAS	-5.56	105.46	109.95
9	D	401	3F8	CAE-CAQ-NAU	5.38	111.14	106.07
9	D	401	3F8	CAF-CAR-NAU	5.07	110.84	106.07

All (1) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
5	A	806	MPD	C4

5 of 8 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	A	806	MPD	C2-C3-C4-C5
9	D	401	3F8	CAM-CAK-OAO-CAI
3	A	801	ADP	PA-O3A-PB-O2B
9	D	401	3F8	CAI-CAJ-OAP-CAL
5	A	804	MPD	C2-C3-C4-C5

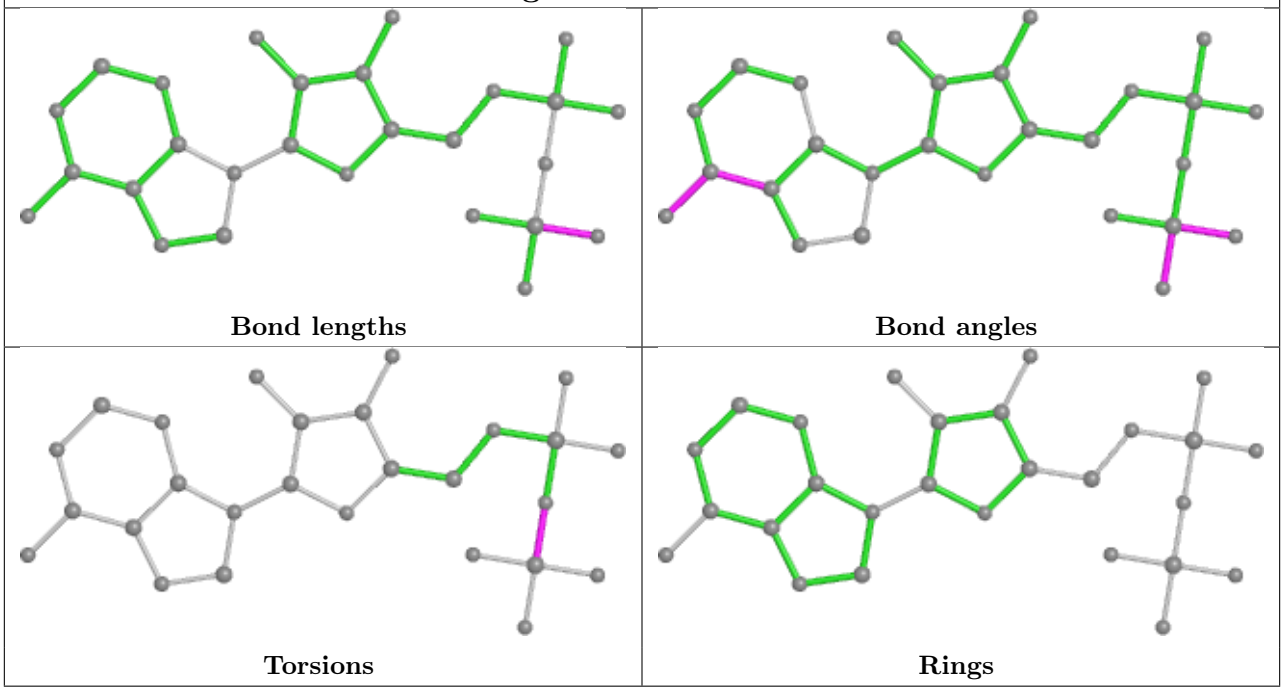
There are no ring outliers.

5 monomers are involved in 33 short contacts:

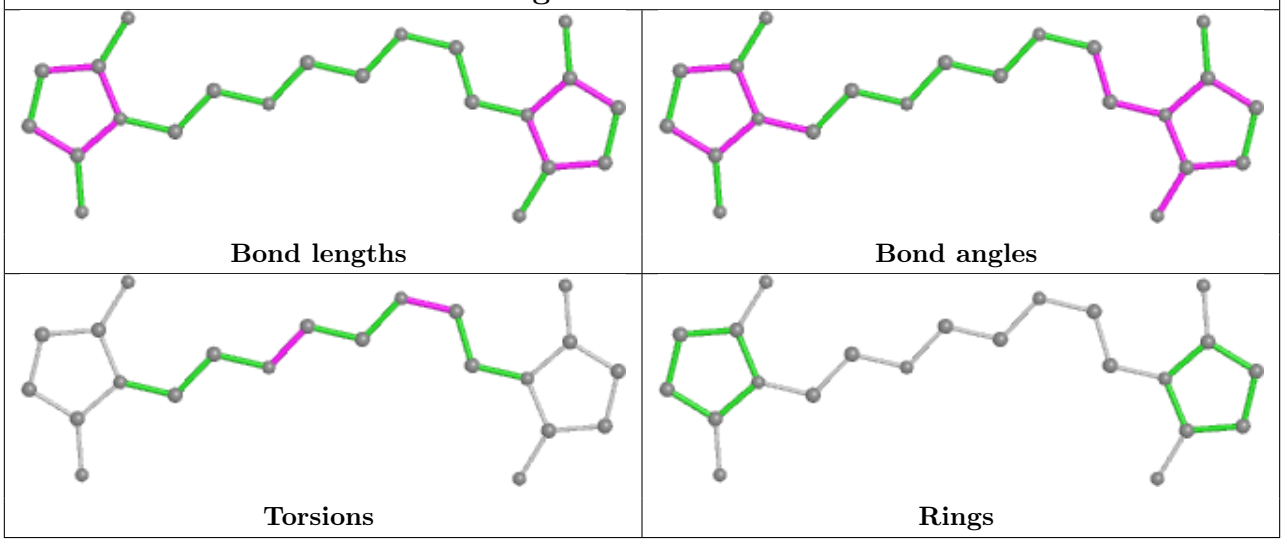
Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	A	806	MPD	8	1
6	A	811	ACT	4	1
9	D	401	3F8	6	0
5	A	805	MPD	13	0
6	A	813	ACT	3	0

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.

Ligand ADP A 801



Ligand 3F8 D 401



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, 95th 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>2			OWAB(Å^2)	Q<0.9
1	A	411/419 (98%)	-0.01	21 (5%)	28	32	17, 24, 51, 90	0
2	D	10/10 (100%)	1.49	3 (30%)	0	0	18, 25, 36, 42	10 (100%)
2	E	10/10 (100%)	1.49	3 (30%)	0	0	76, 87, 120, 120	10 (100%)
All	All	431/439 (98%)	0.06	27 (6%)	20	23	17, 25, 64, 120	20 (4%)

The worst 5 of 27 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	319	SER	5.1
2	D	376	PRO	4.8
2	E	376	PRO	4.8
1	A	440	THR	4.5
1	A	439	GLY	4.4

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)

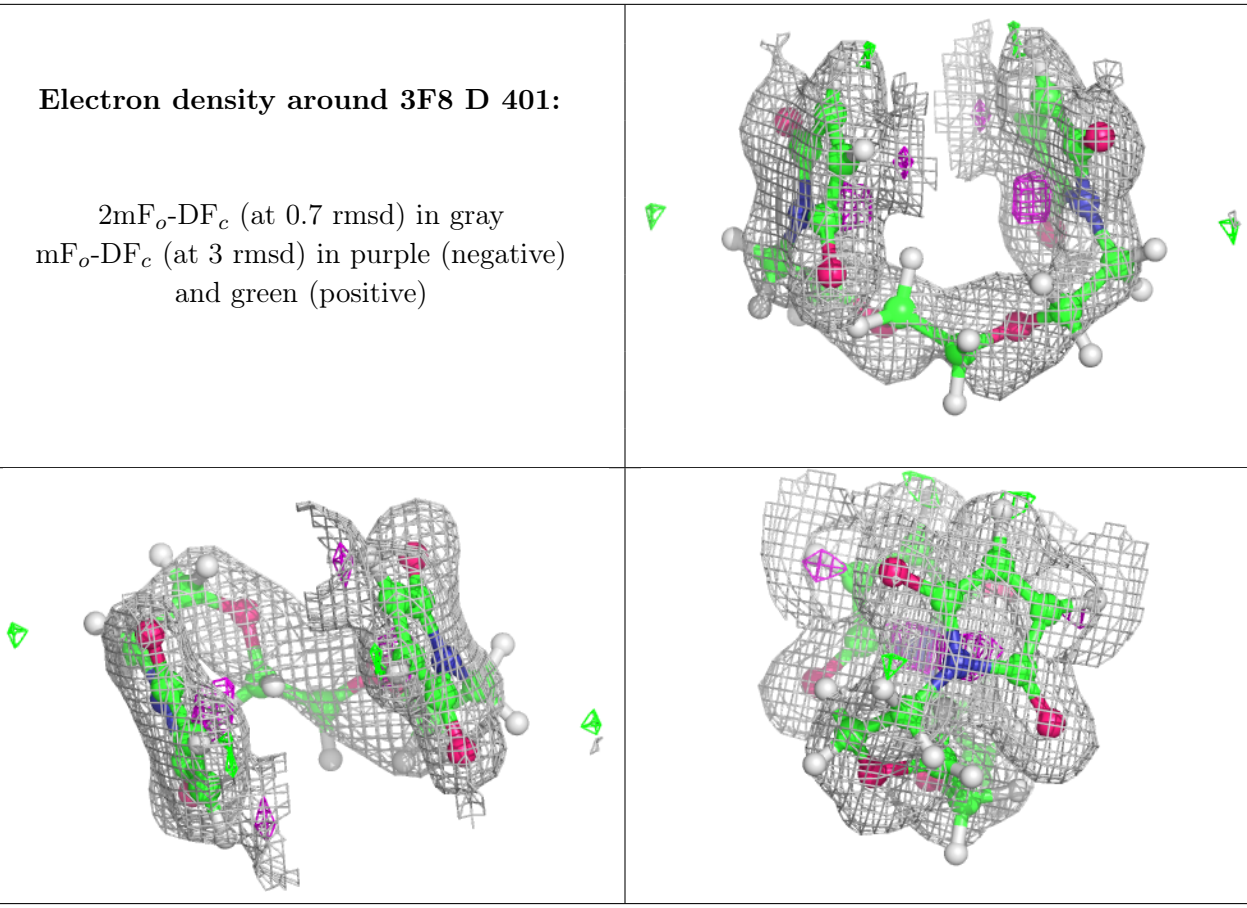
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
6	ACT	A	814	4/4	0.69	0.19	49,52,58,59	0
6	ACT	A	813	4/4	0.71	0.17	33,40,42,49	0
6	ACT	A	808	4/4	0.76	0.18	54,56,59,62	0
5	MPD	A	806	8/8	0.77	0.16	36,39,53,58	1
9	3F8	D	401	22/22	0.78	0.20	30,63,117,120	38
6	ACT	A	810	4/4	0.83	0.17	45,60,62,63	0
6	ACT	A	812	4/4	0.87	0.13	34,37,39,40	0
5	MPD	A	804	8/8	0.87	0.12	38,39,42,45	1
6	ACT	A	809	4/4	0.90	0.20	46,48,49,52	0
6	ACT	A	807	4/4	0.91	0.12	46,58,59,64	0
7	PO4	A	815	5/5	0.92	0.11	55,64,66,75	0
5	MPD	A	805	8/8	0.93	0.11	20,25,28,36	1
6	ACT	A	811	4/4	0.94	0.13	32,33,44,44	7
4	MG	A	803	1/1	0.98	0.06	25,25,25,25	0
3	ADP	A	801	27/27	0.98	0.07	17,20,27,29	4
8	NA	A	816[B]	1/1	0.99	0.16	35,35,35,35	1
8	NA	A	816[A]	1/1	0.99	0.16	26,26,26,26	1
4	MG	A	802	1/1	1.00	0.06	21,21,21,21	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.

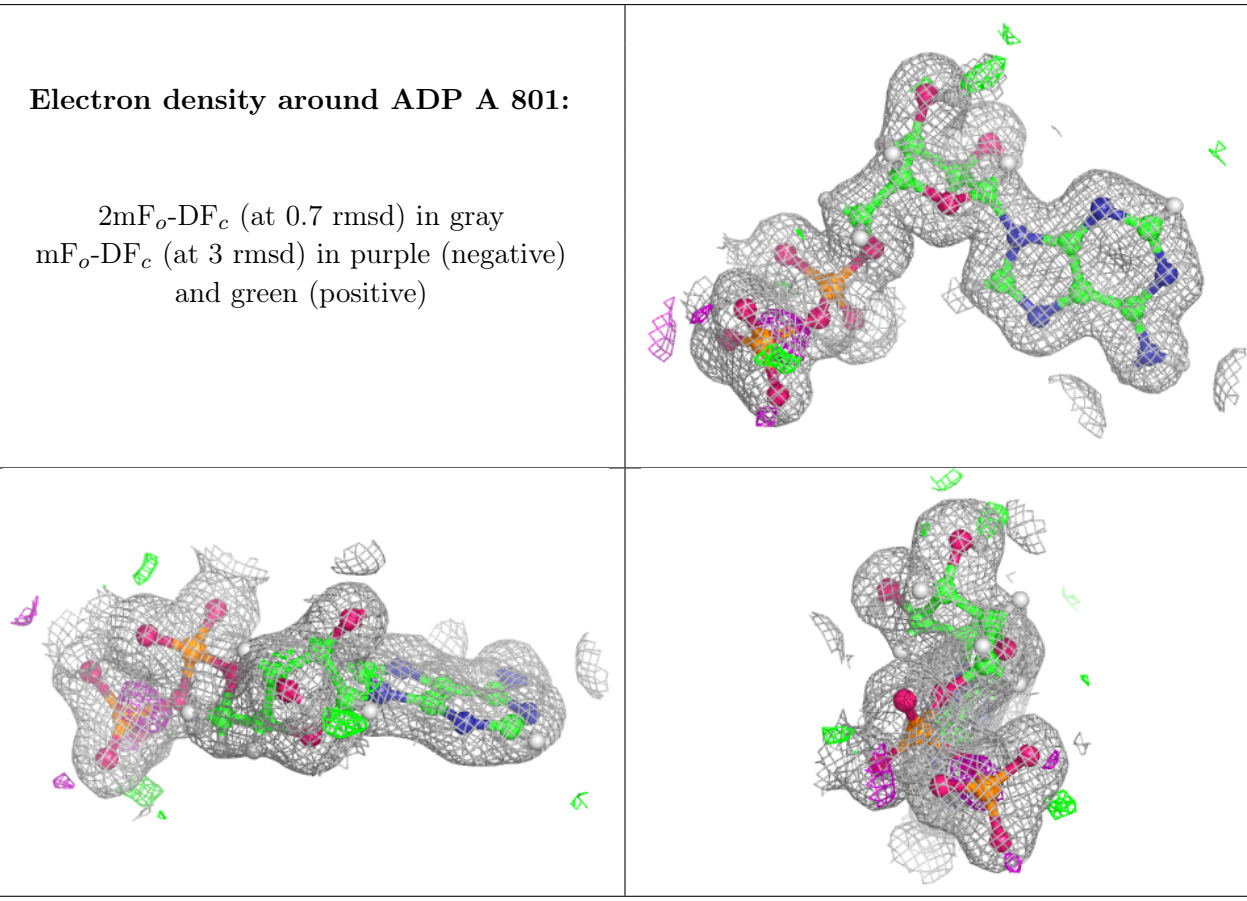
Electron density around 3F8 D 401:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around ADP A 801:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



6.5 Other polymers (i)

There are no such residues in this entry.