



wwPDB X-ray Structure Validation Summary Report ⓘ

May 13, 2020 – 12:00 pm BST

PDB ID : 6FSD
Title : Mus musculus acetylcholinesterase in complex with 2-(4-Biphenyloxy)-N-[3-(1-piperidiny)propyl]-acetamide hydrochloride (10)
Authors : Knutsson, S.; Engdahl, C.; Kumari, R.; Kindahl, T.; Forsgren, N.; Lindgren, C.; Kitur, S.; Kamau, L.; Ekstrom, F.; Linusson, A.
Deposited on : 2018-02-19
Resolution : 2.70 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 ⓘ symbol.

The following versions of software and data (see [references ⓘ](#)) 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 : 2.11
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) : 2.11

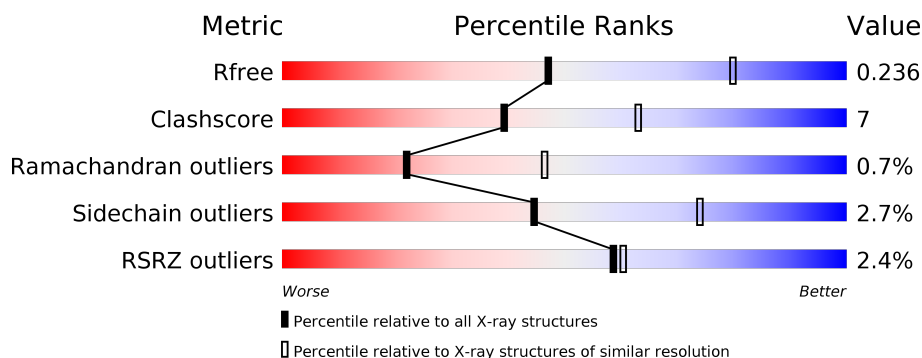
1 Overall quality at a glance ⓘ

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.70 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 (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	2808 (2.70-2.70)
Clashscore	141614	3122 (2.70-2.70)
Ramachandran outliers	138981	3069 (2.70-2.70)
Sidechain outliers	138945	3069 (2.70-2.70)
RSRZ outliers	127900	2737 (2.70-2.70)

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 on 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 $\leq 5\%$. 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	548	<div> <div>2%</div> <div> <div></div> <div>80%</div> <div>17%</div> <div>..</div> </div> </div>
1	B	548	<div> <div>3%</div> <div> <div></div> <div>76%</div> <div>21%</div> <div>..</div> </div> </div>

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 8586 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.

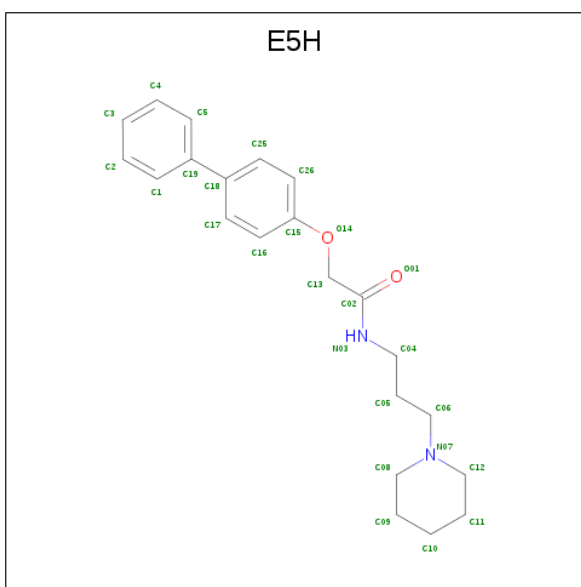
- Molecule 1 is a protein called Acetylcholinesterase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	535	Total	C	N	O	S	0	0	0
			4177	2679	725	759	14			
1	B	533	Total	C	N	O	S	0	0	0
			4158	2670	718	756	14			

There are 10 discrepancies between the modelled and reference sequences:

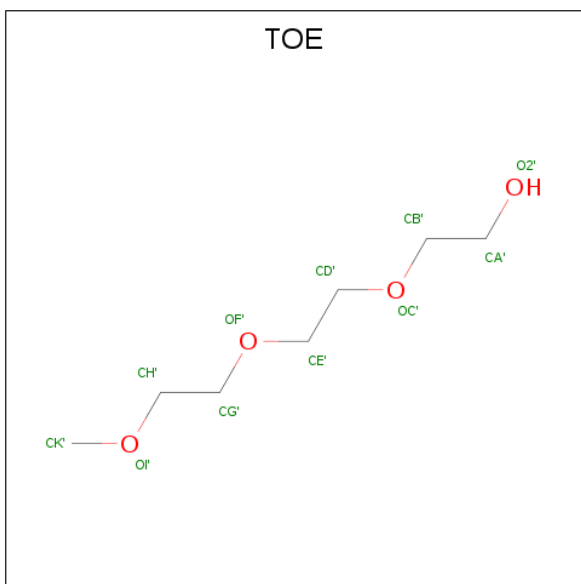
Chain	Residue	Modelled	Actual	Comment	Reference
A	544	ALA	-	expression tag	UNP P21836
A	545	THR	-	expression tag	UNP P21836
A	546	GLY	-	expression tag	UNP P21836
A	547	ALA	-	expression tag	UNP P21836
A	548	PRO	-	expression tag	UNP P21836
B	544	ALA	-	expression tag	UNP P21836
B	545	THR	-	expression tag	UNP P21836
B	546	GLY	-	expression tag	UNP P21836
B	547	ALA	-	expression tag	UNP P21836
B	548	PRO	-	expression tag	UNP P21836

- Molecule 2 is 2-(4-phenylphenoxy)- {N}-(3-piperidin-1-ylpropyl)ethanamide (three-letter code: E5H) (formula: C₂₂H₂₈N₂O₂) (labeled as "Ligand of Interest" by author).



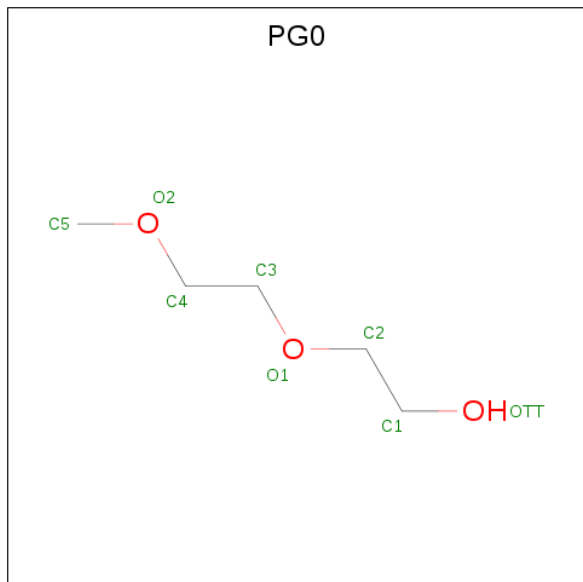
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	C	N	O	0	0
			21	17	2	2		
2	B	1	Total	C	N	O	0	0
			21	17	2	2		

- Molecule 3 is 2-[2-(2-METHOXY-ETHOXY)-ETHOXY]-ETHOXYL (three-letter code: TOE) (formula: C₇H₁₆O₄).



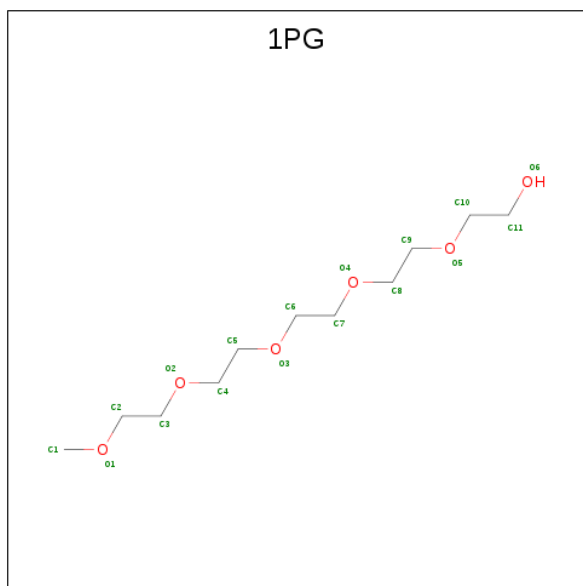
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	C	O	0	0
			11	7	4		

- Molecule 4 is 2-(2-METHOXYETHOXY)ETHANOL (three-letter code: PG0) (formula: $C_5H_{12}O_3$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	A	1	Total	C	O	0	0
			8	5	3		
4	B	1	Total	C	O	0	0
			8	5	3		

- Molecule 5 is 2-(2-{2-[2-(2-METHOXY-ETHOXY)-ETHOXY]-ETHOXY}-ETHOXY)-ETHANOL (three-letter code: 1PG) (formula: $C_{11}H_{24}O_6$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	B	1	Total	C	O	0	0
			17	11	6		

- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	89	Total	O	0	0
			89	89		
6	B	76	Total	O	0	0
			76	76		

These plots are drawn for all protein, RNA and DNA 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.

Chain A:

Chain B:

76% 21% 3%

Label	Category	Value
GLU	Green	1
GLY	Green	1
ARG	Green	1
E4	Red	1
R11	Green	1
V12	Green	1
R13	Green	1
R21	Green	1
A24	Green	1
S44	Green	1
R45	Green	1
R46	Green	1
F47	Green	1
M48	Green	1
P49	Green	1
P50	Green	1
E51	Green	1
Q66	Green	1
N67	Green	1
V68	Green	1
F80	Green	1
E81	Green	1
N89	Green	1
E94	Green	1
L97	Green	1
Y98	Green	1
V101	Green	1
Y105	Green	1
S110	Green	1
L115	Green	1
I116	Green	1
W117	Green	1
I118	Green	1
Y119	Green	1
G122	Green	1
A127	Green	1
A128	Green	1
S129	Green	1
L138	Green	1
A139	Green	1
Q140	Green	1
V147	Green	1
P162	Green	1
E166	Green	1
Q176	Green	1
L180	Green	1
T198	Green	1
L199	Green	1
F200	Green	1
G201	Green	1
E202	Green	1
S203	Green	1
A204	Green	1
G205	Green	1
A206	Green	1
M211	Green	1
L216	Green	1
R224	Green	1
A225	Green	1
V226	Green	1
L227	Green	1
Q228	Green	1
P232	Green	1
R245	Green	1
T249	Green	1
L250	Green	1
L251	Green	1
L254	Green	1
C257	Green	1
P80	Green	1
GLY	Green	1
GLY	Green	1
ALA	Green	1
W117	Green	1
GLY	Green	1
N265	Green	1
I270	Green	1
R274	Green	1
T275	Green	1
V288	Green	1
I451	Green	1
E452	Green	1
L457	Green	1
P458	Green	1
L462	Green	1
D320	Green	1
F321	Green	1
Q322	Green	1
Q325	Green	1
V328	Green	1
G329	Green	1
F338	Green	1
L339	Green	1
F346	Green	1
S347	Green	1
K348	Green	1
S352	Green	1
L353	Green	1
R356	Green	1
L360	Green	1
D372	Green	1
L373	Green	1
A374	Green	1
E376	Green	1
A377	Green	1
V378	Green	1
H381	Green	1
L386	Green	1
P391	Green	1
Q413	Green	1
R417	Green	1
Q421	Green	1
A427	Green	1
Y428	Green	1
P537	Green	1
R433	Green	1
W439	Green	1
P440	Green	1
V445	Green	1
I451	Green	1
E452	Green	1
L457	Green	1
P458	Green	1
L462	Green	1
N464	Green	1
Y465	Green	1
T466	Green	1
T467	Green	1
I471	Green	1
L476	Green	1
M477	Green	1
A484	Green	1
R485	Green	1
T486	Green	1
D491	Green	1
D494	Green	1
S495	Green	1
K496	Green	1
S497	Green	1
P498	Green	1
Q499	Green	1
K500	Green	1
P501	Green	1
P502	Green	1
Y503	Green	1
Y510	Green	1
E519	Green	1
V520	Green	1
R521	Green	1
L524	Green	1
Q527	Green	1
T528	Green	1
C529	Green	1
A530	Green	1
F531	Green	1
W532	Green	1
M533	Green	1
R534	Green	1
F535	Green	1
L536	Green	1
P537	Green	1
K538	Green	1
L539	Green	1
L540	Green	1
S541	Green	1
A542	Green	1
T543	Green	1

4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	78.01Å 110.33Å 227.26Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	39.58 – 2.70 39.58 – 2.70	Depositor EDS
% Data completeness (in resolution range)	95.0 (39.58-2.70) 94.9 (39.58-2.70)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.83 (at 2.69Å)	Xtriage
Refinement program	PHENIX (1.10.1 _2155: ???)	Depositor
R, R_{free}	0.191 , 0.234 0.191 , 0.236	Depositor DCC
R_{free} test set	1035 reflections (1.99%)	wwPDB-VP
Wilson B-factor (Å ²)	48.0	Xtriage
Anisotropy	0.982	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 41.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	8586	wwPDB-VP
Average B, all atoms (Å ²)	52.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.10% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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.

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: TOE, E5H, PG0, 1PG

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	0.44	0/4300	0.62	0/5875
1	B	0.45	1/4281 (0.0%)	0.63	2/5851 (0.0%)
All	All	0.45	1/8581 (0.0%)	0.63	2/11726 (0.0%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	81	GLU	CD-OE1	-7.27	1.17	1.25

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	275	THR	C-N-CA	-5.67	107.53	121.70
1	B	417	ARG	NE-CZ-NH1	5.28	122.94	120.30

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	4177	0	4065	55	0
1	B	4158	0	4047	69	0
2	A	21	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	B	21	0	0	0	0
3	A	11	0	16	2	0
4	A	8	0	12	1	0
4	B	8	0	12	1	0
5	B	17	0	24	2	0
6	A	89	0	0	1	0
6	B	76	0	0	0	0
All	All	8586	0	8176	122	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 7.

The worst 5 of 122 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:B:381:HIS:HE1	1:B:528:THR:HG22	1.39	0.87
1:B:176:GLN:O	1:B:180:LEU:HD13	1.75	0.85
1:A:113:PRO:HG2	1:A:485:ARG:HG2	1.70	0.74
1:A:353:LEU:HB3	1:A:391:PRO:HB2	1.75	0.69
1:A:522:ARG:HH21	1:B:386:LEU:HD11	1.58	0.69

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	A	531/548 (97%)	504 (95%)	26 (5%)	1 (0%)	47 73
1	B	529/548 (96%)	496 (94%)	27 (5%)	6 (1%)	14 34
All	All	1060/1096 (97%)	1000 (94%)	53 (5%)	7 (1%)	22 46

5 of 7 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	494	ASP
1	B	542	ALA
1	B	495	SER
1	B	496	LYS
1	B	97	LEU

5.3.2 Protein sidechains ⓘ

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	439/445 (99%)	425 (97%)	14 (3%)	39	68
1	B	438/445 (98%)	428 (98%)	10 (2%)	50	78
All	All	877/890 (98%)	853 (97%)	24 (3%)	44	74

5 of 24 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	337	TYR
1	A	493	ARG
1	B	476	LEU
1	A	376	GLU
1	A	414	LEU

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

Mol	Chain	Res	Type
1	A	181	GLN
1	A	508	GLN
1	B	279	GLN
1	B	381	HIS

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

5.6 Ligand geometry ⓘ

6 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	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
4	PG0	A	603	-	7,7,7	0.52	0	6,6,6	0.94	0
3	TOE	A	602	-	10,10,10	0.68	0	9,9,9	0.71	0
5	1PG	B	602	-	16,16,16	0.66	0	15,15,15	1.23	2 (13%)
2	E5H	A	601	-	22,22,28	2.62	11 (50%)	27,27,35	2.00	10 (37%)
4	PG0	B	603	-	7,7,7	0.49	0	6,6,6	0.93	0
2	E5H	B	601	-	22,22,28	2.28	8 (36%)	27,27,35	2.07	7 (25%)

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
4	PG0	A	603	-	-	3/5/5/5	-
3	TOE	A	602	-	-	4/8/8/8	-
5	1PG	B	602	-	-	7/14/14/14	-
2	E5H	A	601	-	-	0/12/20/24	0/2/2/3
4	PG0	B	603	-	-	5/5/5/5	-
2	E5H	B	601	-	-	3/12/20/24	0/2/2/3

The worst 5 of 19 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	601	E5H	C02-N03	7.67	1.50	1.33
2	B	601	E5H	C02-N03	5.69	1.46	1.33
2	B	601	E5H	C13-C02	4.59	1.60	1.51
2	A	601	E5H	C13-C02	4.53	1.60	1.51
2	A	601	E5H	C06-N07	3.16	1.54	1.47

The worst 5 of 19 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	601	E5H	C26-C15-C16	-4.53	113.19	120.18
2	A	601	E5H	C26-C15-C16	-4.17	113.76	120.18
2	B	601	E5H	C16-C17-C18	3.96	126.69	121.38
2	A	601	E5H	C16-C17-C18	3.76	126.42	121.38
2	A	601	E5H	C06-N07-C08	-3.44	102.44	111.23

There are no chirality outliers.

5 of 22 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	B	602	1PG	O5-C10-C11-O6
4	B	603	PG0	O1-C3-C4-O2
4	A	603	PG0	OTT-C1-C2-O1
5	B	602	1PG	O4-C8-C9-O5
2	B	601	E5H	C04-C05-C06-N07

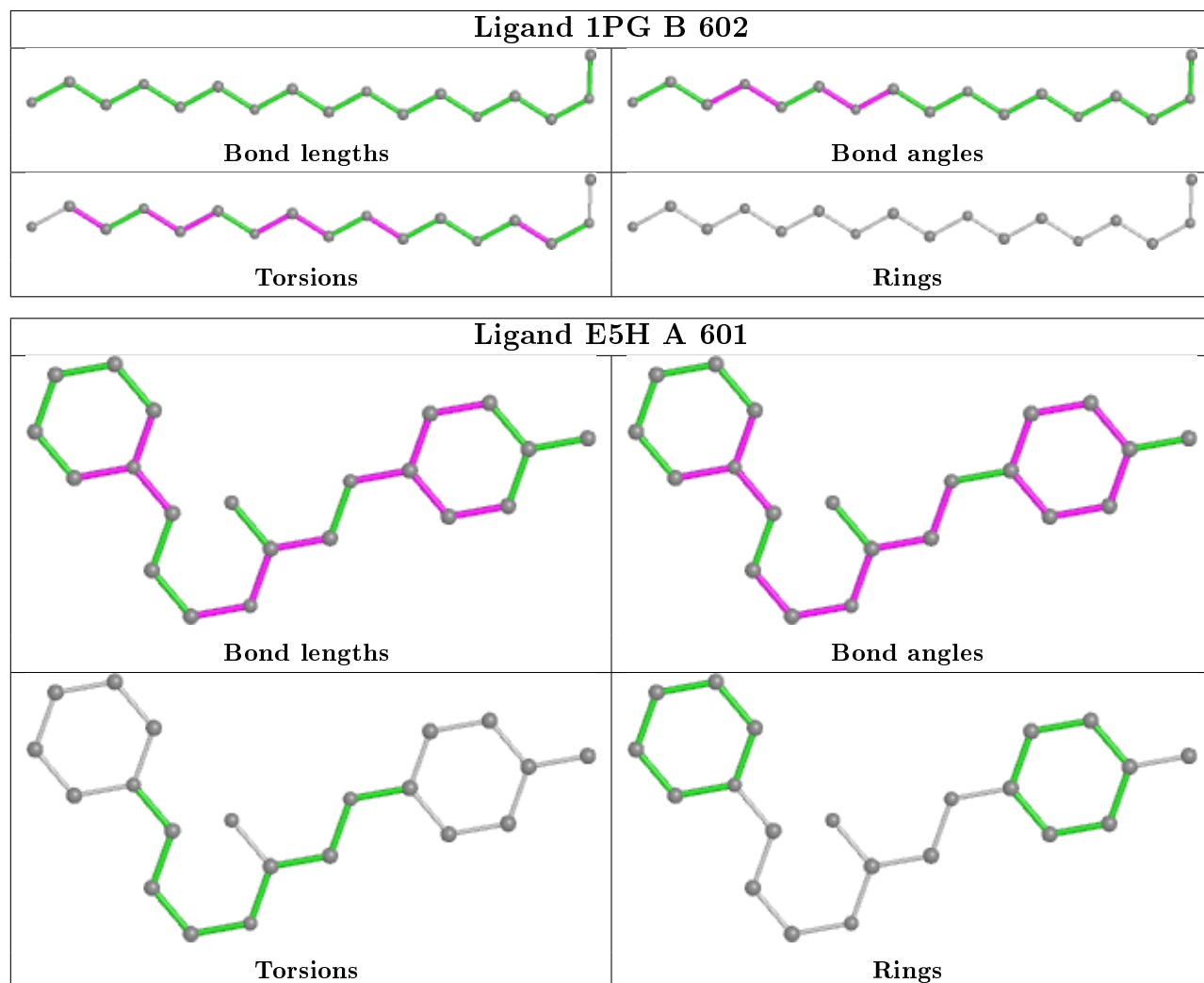
There are no ring outliers.

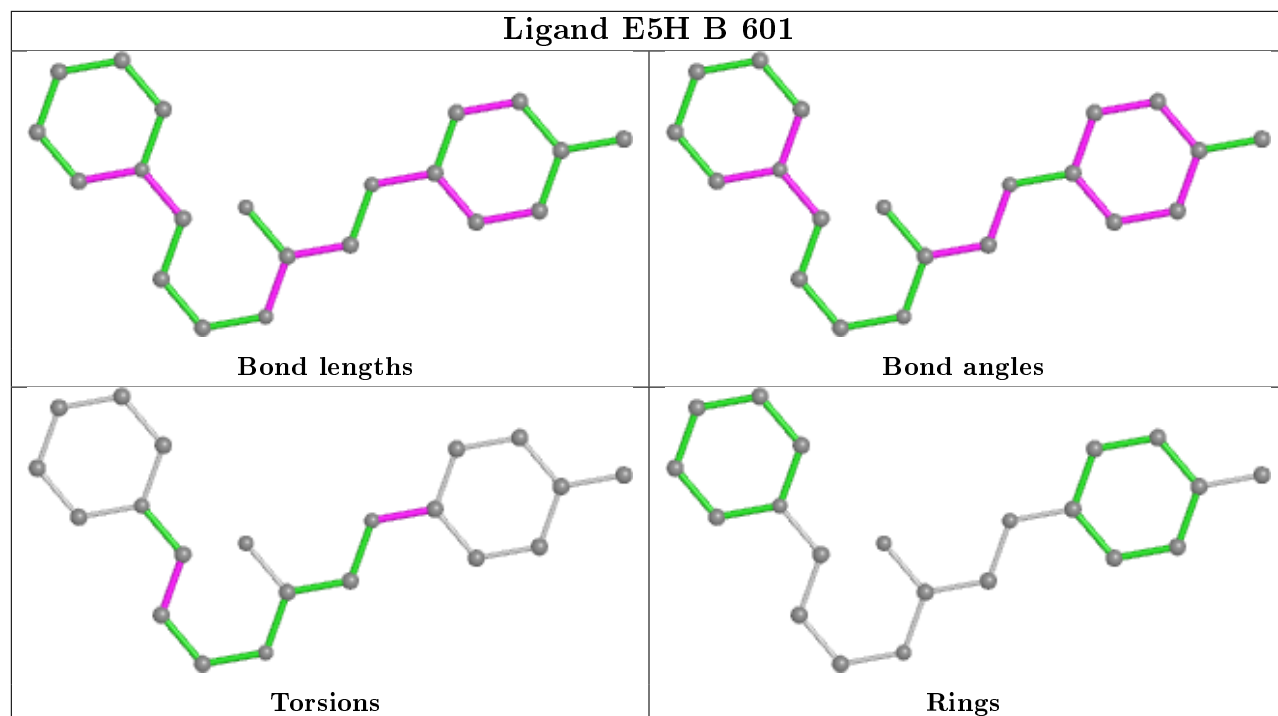
4 monomers are involved in 6 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	A	603	PG0	1	0
3	A	602	TOE	2	0
5	B	602	1PG	2	0
4	B	603	PG0	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 than 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, 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	535/548 (97%)	-0.11	12 (2%) 62 63	34, 48, 67, 107	0
1	B	533/548 (97%)	-0.03	14 (2%) 56 57	36, 52, 71, 89	0
All	All	1068/1096 (97%)	-0.07	26 (2%) 59 60	34, 50, 69, 107	0

The worst 5 of 26 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	542	ALA	4.0
1	A	497	SER	3.9
1	B	497	SER	3.5
1	B	543	THR	3.4
1	B	205	GLY	3.4

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](#)

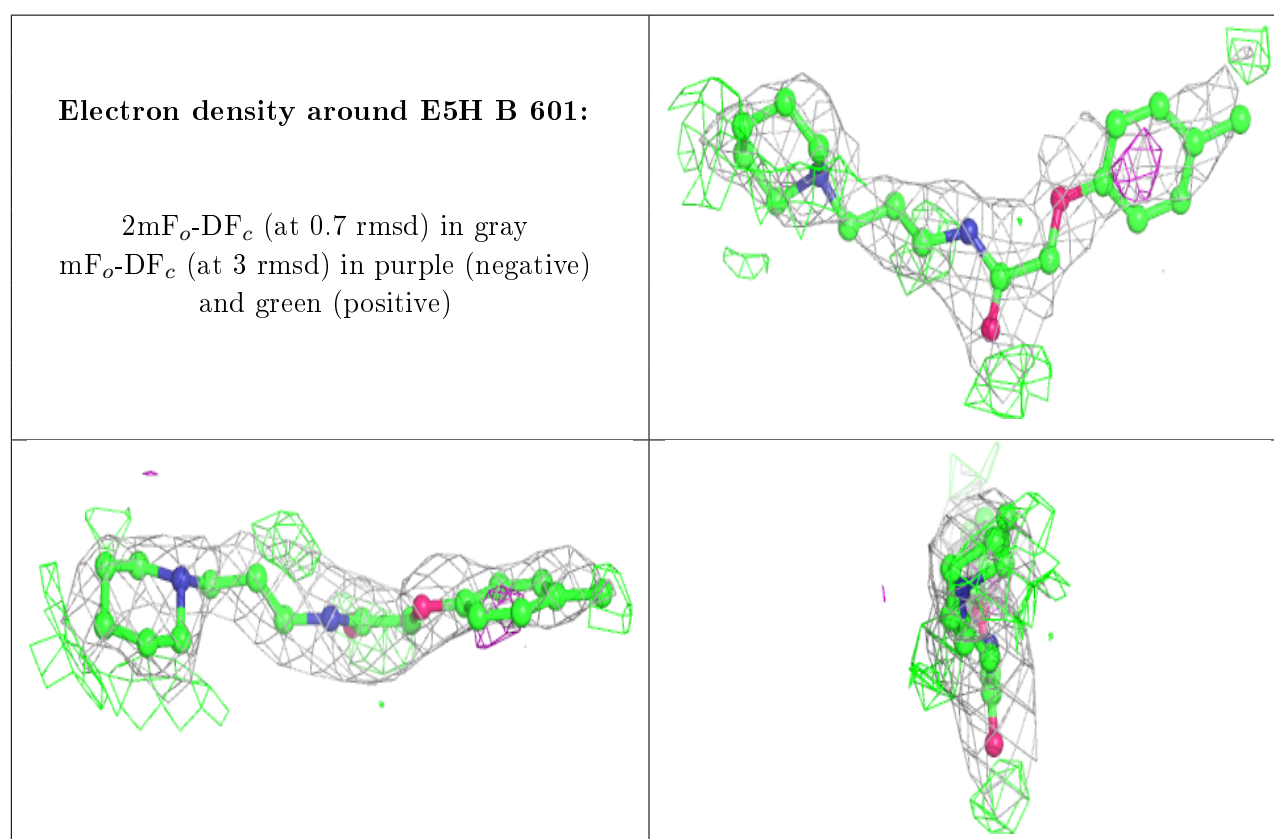
There are no carbohydrates in this entry.

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.

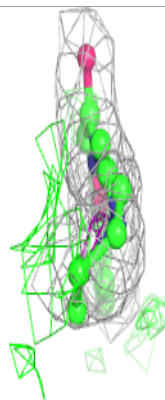
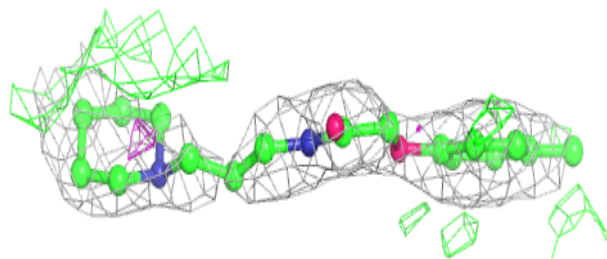
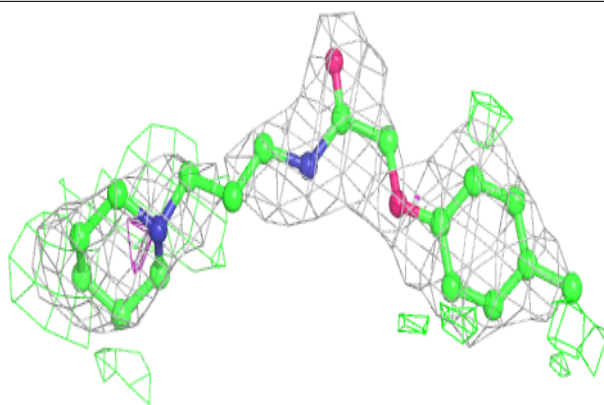
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
2	E5H	B	601	21/26	0.73	0.35	60,71,82,83	0
2	E5H	A	601	21/26	0.82	0.25	50,67,74,78	0
4	PG0	B	603	8/8	0.85	0.29	66,71,76,77	0
4	PG0	A	603	8/8	0.85	0.19	61,67,69,72	0
3	TOE	A	602	11/11	0.87	0.20	44,53,63,74	0
5	1PG	B	602	17/17	0.89	0.18	50,59,67,68	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.



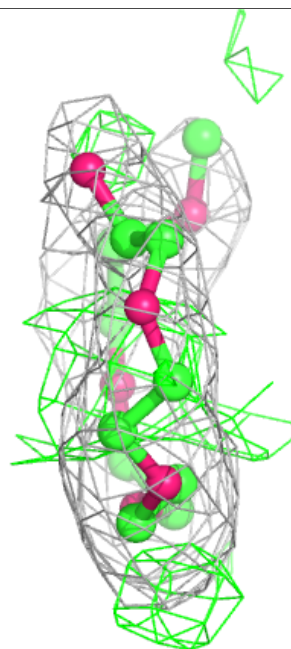
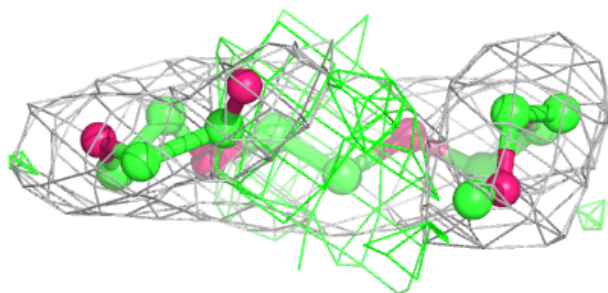
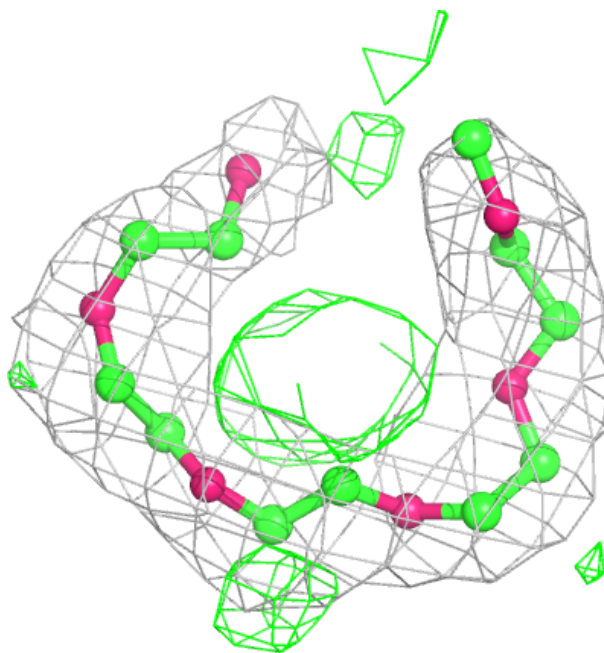
Electron density around E5H A 601:

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



Electron density around 1PG B 602:

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



6.5 Other polymers ⓘ

There are no such residues in this entry.