Full wwPDB X-ray Structure Validation Report (i)

Oct 31, 2023 – 08:00 PM JST

PDB ID	:	5H15
Title	:	EED in complex with PRC2 allosteric inhibitor EED709
Authors	:	Zhao, K.; Zhao, M.; Luo, X.; Zhang, H.
Deposited on	:	2016-10-08
Resolution	:	2.27 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/XrayValidationReportHelp
with specific help available everywhere you see the (i) symbol.

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

The following versions of software and data (see references (i)) were used in the production of this report:

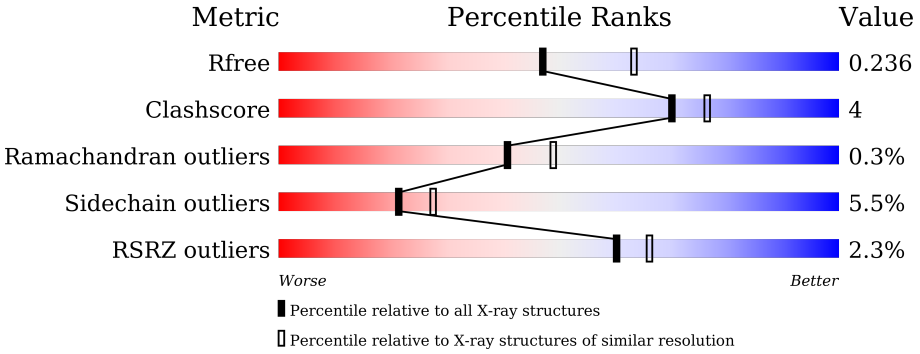
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.36
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (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 2.27 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	6980 (2.30-2.26)
Clashscore	141614	7711 (2.30-2.26)
Ramachandran outliers	138981	7597 (2.30-2.26)
Sidechain outliers	138945	7598 (2.30-2.26)
RSRZ outliers	127900	6849 (2.30-2.26)

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	367	2%, 84%, 11%
1	B	367	2%, 88%, 10%
2	C	29	3%, 83%, 17%
2	D	29	7%, 79%, 17%

2 Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 6732 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 Polycomb protein EED.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	356	2892	1834	505	531	22	0	1	0
1	B	364	2959	1873	521	543	22	0	1	0

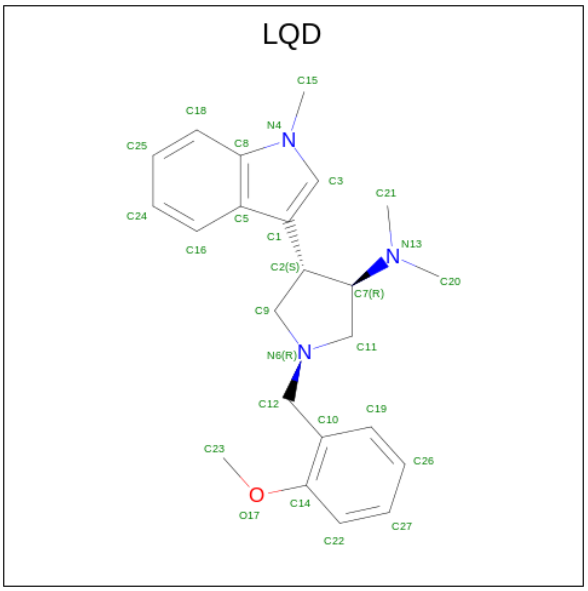
There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	75	GLY	-	expression tag	UNP O75530
B	75	GLY	-	expression tag	UNP O75530

- Molecule 2 is a protein called Histone-lysine N-methyltransferase EZH2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	C	29	254	157	50	46	1	0	0	0
2	D	29	254	157	50	46	1	0	0	0

- Molecule 3 is (3R,4S)-1-[(2-methoxyphenyl)methyl]-N,N-dimethyl-4-(1-methylindol-3-yl)pyrrolidin-3-amine (three-letter code: LQD) (formula: $C_{23}H_{29}N_3O$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	N	O		
3	A	1	27	23	3	1	0	0
			Total	C	N	O		
3	B	1	27	23	3	1	0	0

- Molecule 4 is water.

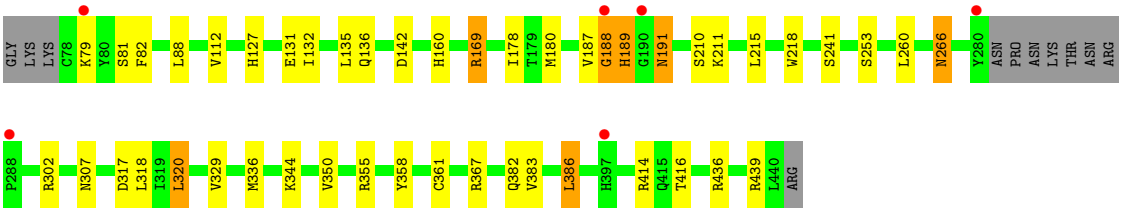
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	O		
4	A	146	146	146	0	0
			Total	O		
4	B	151	151	151	0	0
			Total	O		
4	C	10	10	10	0	0
			Total	O		
4	D	12	12	12	0	0

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.

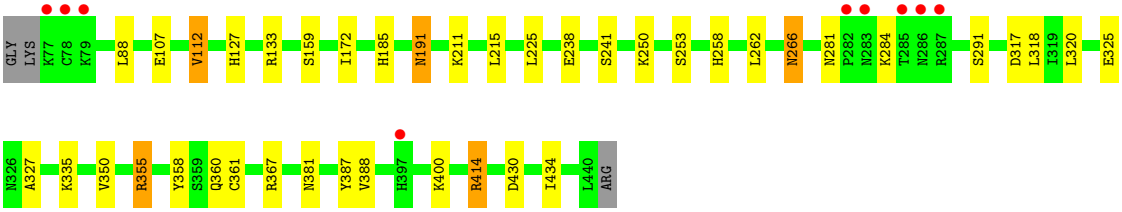
• Molecule 1: Polycomb protein EED

Chain A:



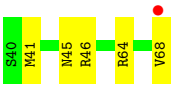
• Molecule 1: Polycomb protein EED

Chain B:



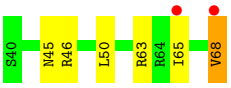
• Molecule 2: Histone-lysine N-methyltransferase EZH2

Chain C:



• Molecule 2: Histone-lysine N-methyltransferase EZH2

Chain D:



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants a, b, c, α, β, γ	93.50Å 179.13Å 50.56Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	43.16 – 2.27 43.16 – 2.27	Depositor EDS
% Data completeness (in resolution range)	95.1 (43.16-2.27) 95.2 (43.16-2.27)	Depositor EDS
R_{merge}	0.12	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.40 (at 2.27Å)	Xtriage
Refinement program	BUSTER 2.11.5	Depositor
R, R_{free}	0.183 , 0.236 0.183 , 0.236	Depositor DCC
R_{free} test set	1916 reflections (5.01%)	wwPDB-VP
Wilson B-factor (Å^2)	22.5	Xtriage
Anisotropy	0.615	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.34 , 48.8	EDS
L-test for twinning[2]	$< \|L\| > = 0.49$, $< L^2 > = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.95	EDS
Total number of atoms	6732	wwPDB-VP
Average B, all atoms (Å^2)	26.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 17.81% 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: LQD

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	0.51	0/2965	0.71	0/4012
1	B	0.51	0/3034	0.71	0/4107
2	C	0.52	0/257	0.63	0/341
2	D	0.52	0/257	0.65	0/341
All	All	0.51	0/6513	0.70	0/8801

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	2892	0	2807	21	0
1	B	2959	0	2880	22	0
2	C	254	0	260	4	0
2	D	254	0	260	5	0
3	A	27	0	0	0	0
3	B	27	0	0	0	0
4	A	146	0	0	0	0
4	B	151	0	0	0	0
4	C	10	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	D	12	0	0	0	0
All	All	6732	0	6207	44	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.

All (44) 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:225:LEU:O	1:B:291:SER:HB3	1.84	0.77
1:B:317:ASP:H	2:D:45:ASN:HD21	1.32	0.75
1:A:317:ASP:H	2:C:45:ASN:HD21	1.42	0.65
1:B:266:ASN:HD22	1:B:266:ASN:H	1.45	0.63
1:A:266:ASN:HD22	1:A:266:ASN:H	1.49	0.61
1:B:88:LEU:HD11	1:B:434:ILE:HD12	1.87	0.56
1:B:414:ARG:HD3	1:B:430:ASP:OD1	2.05	0.56
1:B:387:TYR:HB3	1:B:400:LYS:HE2	1.89	0.55
1:A:191:ASN:HB3	1:A:211:LYS:HB3	1.89	0.54
1:B:191:ASN:HB3	1:B:211:LYS:HB3	1.89	0.54
1:A:329:VAL:HG22	1:A:355:ARG:HG2	1.90	0.54
1:A:112:VAL:HG11	2:C:68:VAL:HG11	1.88	0.53
1:A:82:PHE:CE2	1:A:439:ARG:HG2	2.43	0.53
2:D:63:ARG:HD2	2:D:65:ILE:HD11	1.92	0.51
1:A:358:TYR:HE2	1:A:361:CYS:HB3	1.77	0.49
1:B:317:ASP:H	2:D:45:ASN:ND2	2.07	0.49
1:A:215:LEU:HD21	1:A:253:SER:HB3	1.94	0.49
1:A:132:ILE:HD11	1:A:436:ARG:HB2	1.96	0.48
1:B:112:VAL:HG11	2:D:68:VAL:HG13	1.95	0.48
1:B:159:SER:O	2:D:65:ILE:HG23	2.14	0.48
1:A:160:HIS:CE1	1:A:178:ILE:HD12	2.50	0.47
1:B:327:ALA:HB1	1:B:355:ARG:HG2	1.95	0.47
1:A:358:TYR:CE2	1:A:361:CYS:HB3	2.49	0.46
1:B:358:TYR:HE2	1:B:361:CYS:HB3	1.81	0.46
1:A:317:ASP:H	2:C:45:ASN:ND2	2.10	0.46
1:B:281:ASN:HB3	1:B:284:LYS:HB2	1.98	0.45
1:A:127:HIS:HB2	1:A:131:GLU:HB3	1.98	0.45
1:B:266:ASN:HD22	1:B:266:ASN:N	2.14	0.45
1:B:215:LEU:HD21	1:B:253:SER:HB3	2.00	0.44
1:B:360:GLN:O	1:B:381:ASN:HB2	2.17	0.44
1:B:172:ILE:O	1:B:185:HIS:HA	2.18	0.44
1:B:388:VAL:H	1:B:400:LYS:NZ	2.15	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:189:HIS:CE1	1:A:210:SER:HB3	2.54	0.42
1:B:211:LYS:HA	1:B:238:GLU:HG2	2.01	0.42
1:A:320:LEU:HD12	1:A:320:LEU:HA	1.94	0.42
1:A:112:VAL:HG21	2:C:68:VAL:CG1	2.50	0.42
1:A:241:SER:HB2	1:A:367[A]:ARG:HH12	1.84	0.42
1:B:127:HIS:CD2	1:B:133:ARG:HE	2.38	0.42
1:B:250:LYS:HD2	1:B:262:LEU:HD11	2.01	0.41
1:A:188:GLY:HA3	1:A:218:TRP:HH2	1.85	0.41
1:A:142:ASP:OD2	1:A:169:ARG:HD3	2.21	0.41
1:A:386:LEU:HD21	1:A:416:THR:HG21	2.03	0.41
1:A:180:MET:HB2	1:A:180:MET:HE2	1.91	0.40
1:B:241:SER:HB2	1:B:367[B]:ARG:HH22	1.86	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	A	353/367 (96%)	340 (96%)	11 (3%)	2 (1%)	25 29
1	B	363/367 (99%)	349 (96%)	14 (4%)	0	100 100
2	C	27/29 (93%)	26 (96%)	1 (4%)	0	100 100
2	D	27/29 (93%)	25 (93%)	2 (7%)	0	100 100
All	All	770/792 (97%)	740 (96%)	28 (4%)	2 (0%)	41 49

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	188	GLY
1	A	187	VAL

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	320/329 (97%)	299 (93%)	21 (7%)	16 20
1	B	328/329 (100%)	316 (96%)	12 (4%)	34 45
2	C	29/29 (100%)	26 (90%)	3 (10%)	7 7
2	D	29/29 (100%)	26 (90%)	3 (10%)	7 7
All	All	706/716 (99%)	667 (94%)	39 (6%)	21 27

All (39) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	79	LYS
1	A	81	SER
1	A	88	LEU
1	A	135	LEU
1	A	136	GLN
1	A	169	ARG
1	A	189	HIS
1	A	191	ASN
1	A	260	LEU
1	A	266	ASN
1	A	302	ARG
1	A	307	ASN
1	A	318	LEU
1	A	320	LEU
1	A	336	MET
1	A	344	LYS
1	A	350	VAL
1	A	382	GLN
1	A	383	VAL
1	A	386	LEU
1	A	414	ARG
1	B	107	GLU
1	B	112	VAL
1	B	191	ASN

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Mol	Chain	Res	Type
1	B	258	HIS
1	B	266	ASN
1	B	318	LEU
1	B	320	LEU
1	B	325	GLU
1	B	335	LYS
1	B	350	VAL
1	B	355	ARG
1	B	414	ARG
2	C	41	MET
2	C	46	ARG
2	C	64	ARG
2	D	46	ARG
2	D	50	LEU
2	D	68	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (12) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	100	GLN
1	A	189	HIS
1	A	204	ASN
1	A	266	ASN
1	A	374	GLN
1	B	136	GLN
1	B	213	HIS
1	B	266	ASN
1	B	349	ASN
1	B	374	GLN
2	C	45	ASN
2	D	45	ASN

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)

2 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	$\#\|Z\| > 2$
3	LQD	A	501	-	28,30,30	2.43	6 (21%)	30,43,43	1.82	8 (26%)
3	LQD	B	501	-	28,30,30	2.48	5 (17%)	30,43,43	1.87	5 (16%)

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	LQD	A	501	-	-	2/10/26/26	0/4/4/4
3	LQD	B	501	-	-	2/10/26/26	0/4/4/4

All (11) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	501	LQD	C1-C5	10.15	1.52	1.40
3	A	501	LQD	C1-C5	9.93	1.52	1.40
3	B	501	LQD	C3-N4	-4.63	1.31	1.38
3	A	501	LQD	C3-N4	-4.37	1.31	1.38
3	B	501	LQD	O17-C14	3.17	1.42	1.37
3	A	501	LQD	O17-C14	2.85	1.41	1.37
3	B	501	LQD	C24-C16	2.34	1.42	1.36
3	A	501	LQD	C24-C16	2.29	1.41	1.36
3	B	501	LQD	C25-C18	2.28	1.41	1.36
3	A	501	LQD	C11-C7	2.04	1.56	1.52
3	A	501	LQD	C25-C18	2.03	1.41	1.36

All (13) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	B	501	LQD	C23-O17-C14	5.75	126.20	117.53
3	A	501	LQD	C23-O17-C14	4.67	124.58	117.53
3	B	501	LQD	C1-C5-C8	-4.30	102.36	106.83
3	A	501	LQD	C12-N6-C11	4.04	120.13	113.27
3	A	501	LQD	C1-C5-C8	-3.60	103.08	106.83
3	B	501	LQD	C12-N6-C11	3.04	118.43	113.27
3	A	501	LQD	C18-C8-N4	-3.02	129.55	132.14
3	A	501	LQD	C24-C16-C5	-2.72	117.12	120.89
3	B	501	LQD	C24-C16-C5	-2.64	117.23	120.89
3	A	501	LQD	C2-C9-N6	2.52	107.78	104.37
3	B	501	LQD	C9-C2-C1	-2.48	111.69	114.98
3	A	501	LQD	O17-C14-C10	2.35	119.24	115.97
3	A	501	LQD	C9-C2-C1	-2.00	112.32	114.98

There are no chirality outliers.

All (4) torsion outliers are listed below:

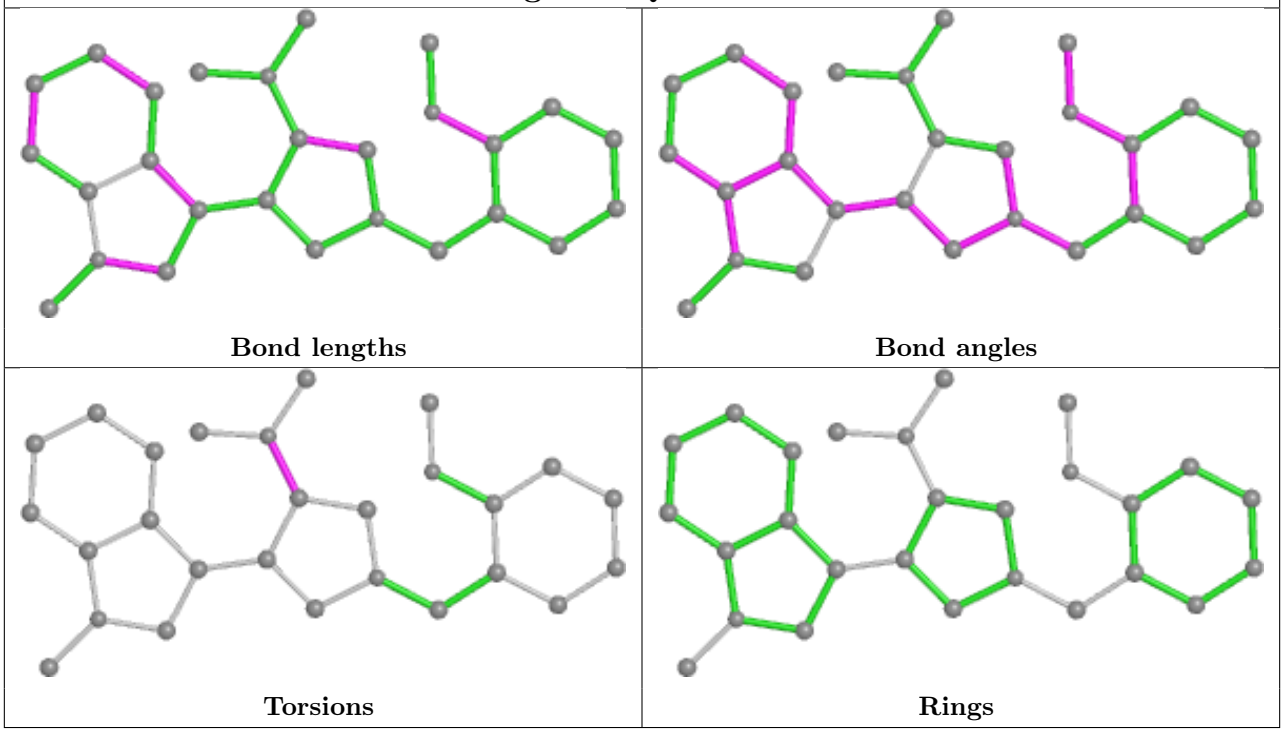
Mol	Chain	Res	Type	Atoms
3	A	501	LQD	C11-C7-N13-C20
3	A	501	LQD	C11-C7-N13-C21
3	B	501	LQD	C11-C7-N13-C21
3	B	501	LQD	C10-C12-N6-C9

There are no ring outliers.

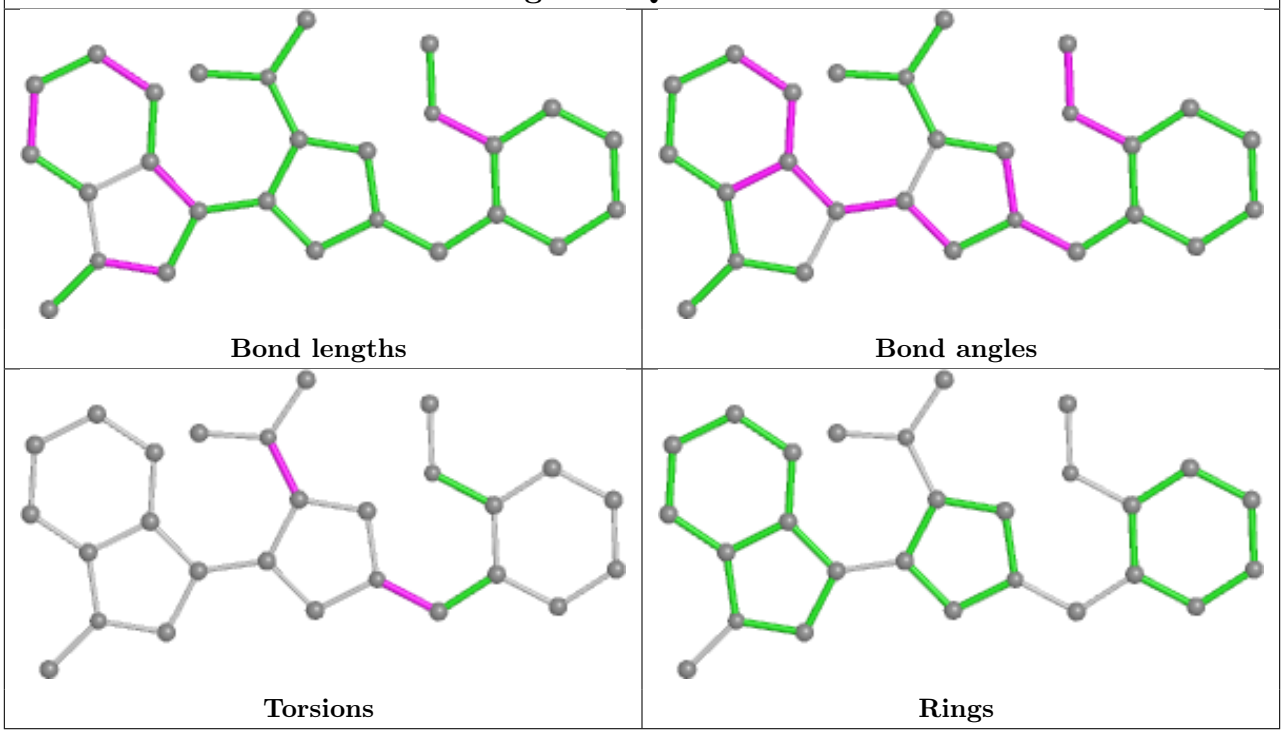
No monomer is involved in short contacts.

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 LQD A 501



Ligand LQD B 501



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	356/367 (97%)	-0.36	6 (1%)	70	75	11, 22, 47, 64	0
1	B	364/367 (99%)	-0.39	9 (2%)	57	63	9, 22, 45, 78	0
2	C	29/29 (100%)	0.07	1 (3%)	45	50	19, 35, 55, 59	0
2	D	29/29 (100%)	0.07	2 (6%)	16	21	21, 36, 60, 66	0
All	All	778/792 (98%)	-0.34	18 (2%)	60	66	9, 23, 47, 78	0

All (18) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	287	ARG	4.2
1	B	286	ASN	4.2
2	D	68	VAL	4.2
1	B	79	LYS	3.9
1	B	283	ASN	3.7
1	A	288	PRO	3.4
1	B	78	CYS	3.3
1	B	397	HIS	3.2
1	A	397	HIS	3.0
1	A	188	GLY	2.8
1	B	77	LYS	2.7
1	A	79	LYS	2.6
1	B	285	THR	2.5
1	A	280	TYR	2.3
2	D	65	ILE	2.2
1	B	282	PRO	2.1
2	C	68	VAL	2.1
1	A	190	GLY	2.1

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)

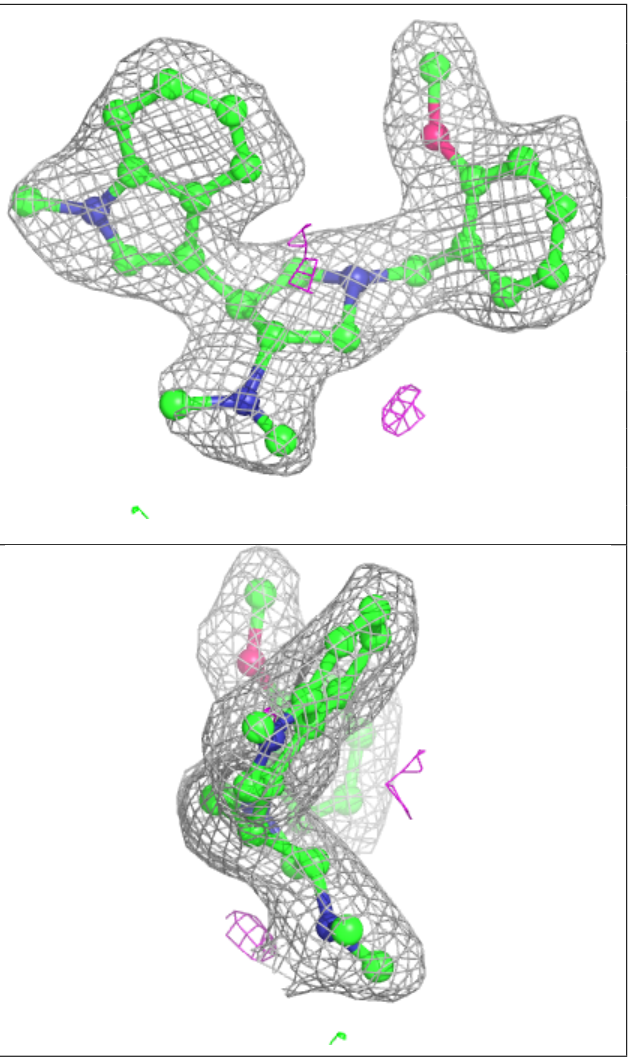
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists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

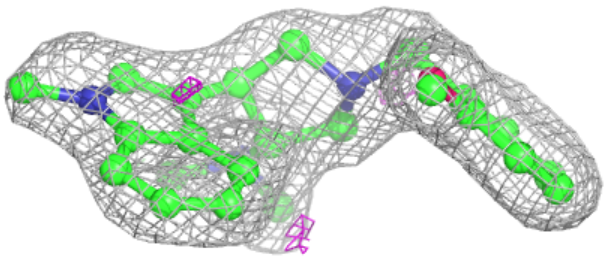
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
3	LQD	B	501	27/27	0.93	0.13	17,28,34,35	0
3	LQD	A	501	27/27	0.95	0.12	19,27,33,35	0

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 LQD B 501:

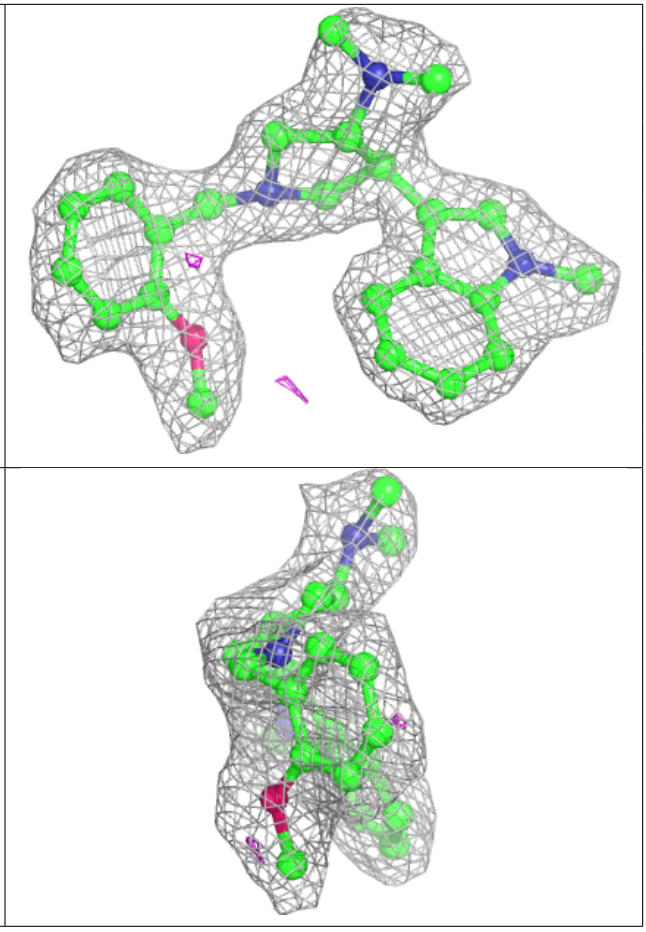
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





Electron density around LQD A 501:

$2mF_o$-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.