



wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 5, 2026 – 01:24 AM UTC

PDB ID : 7QRA / pdb_00007qra
Title : Crystal structure of CK1 delta in complex with VN725
Authors : Chaikuad, A.; Nemec, V.; Paruch, K.; Knapp, S.; Structural Genomics Consortium (SGC)
Deposited on : 2022-01-10
Resolution : 2.40 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 types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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

MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

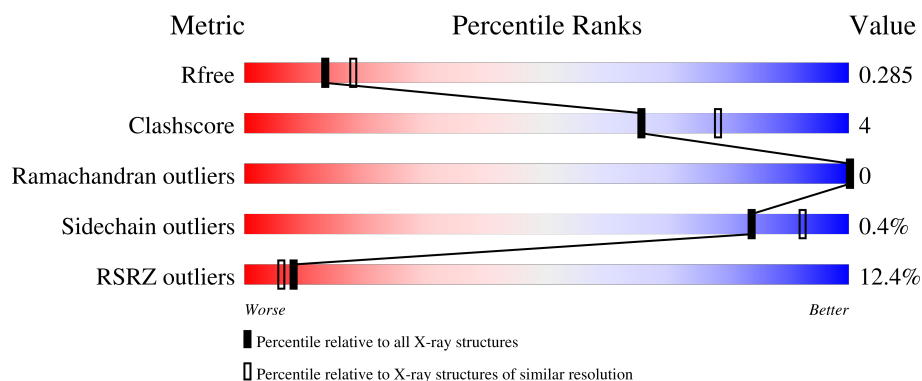
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.40 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}	180053	4912 (2.40-2.40)
Clashscore	190562	5391 (2.40-2.40)
Ramachandran outliers	187476	5320 (2.40-2.40)
Sidechain outliers	187428	5321 (2.40-2.40)
RSRZ outliers	180081	4916 (2.40-2.40)

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 $\leq 5\%$. 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	296	10% 87% 10% ..
1	B	296	10% 86% 11% .
1	C	296	13% 86% 8% 5%
1	D	296	14% 84% 10% 5%

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 9801 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 Casein kinase I isoform delta.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	289	Total	C	N	O	S	0	0	0
			2353	1508	412	419	14			
1	B	289	Total	C	N	O	S	0	0	0
			2353	1508	412	419	14			
1	C	280	Total	C	N	O	S	0	0	0
			2282	1466	396	406	14			
1	D	280	Total	C	N	O	S	0	0	0
			2282	1466	396	406	14			

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-1	SER	-	expression tag	UNP P48730
A	0	MET	-	expression tag	UNP P48730
B	-1	SER	-	expression tag	UNP P48730
B	0	MET	-	expression tag	UNP P48730
C	-1	SER	-	expression tag	UNP P48730
C	0	MET	-	expression tag	UNP P48730
D	-1	SER	-	expression tag	UNP P48730
D	0	MET	-	expression tag	UNP P48730

- Molecule 2 is SULFATE ION (CCD ID: SO4) (formula: O₄S).



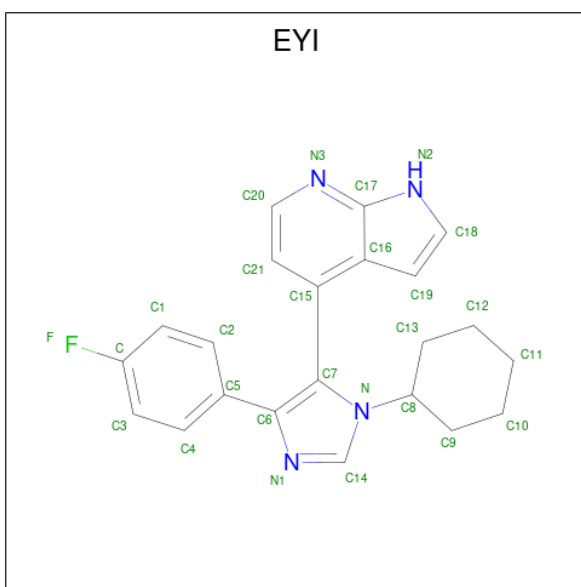
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total	O	S	0	0
			5	4	1		
2	A	1	Total	O	S	0	0
			5	4	1		
2	A	1	Total	O	S	0	0
			5	4	1		
2	B	1	Total	O	S	0	0
			5	4	1		
2	B	1	Total	O	S	0	0
			5	4	1		
2	B	1	Total	O	S	0	0
			5	4	1		
2	C	1	Total	O	S	0	0
			5	4	1		
2	C	1	Total	O	S	0	0
			5	4	1		
2	D	1	Total	O	S	0	0
			5	4	1		
2	D	1	Total	O	S	0	0
			5	4	1		

- Molecule 3 is 1,2-ETHANEDIOL (CCD ID: EDO) (formula: C₂H₆O₂).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	C	O	0	0
			4	2	2		
3	A	1	Total	C	O	0	0
			4	2	2		
3	A	1	Total	C	O	0	0
			4	2	2		
3	B	1	Total	C	O	0	0
			4	2	2		
3	B	1	Total	C	O	0	0
			4	2	2		
3	B	1	Total	C	O	0	0
			4	2	2		
3	B	1	Total	C	O	0	0
			4	2	2		
3	C	1	Total	C	O	0	0
			4	2	2		
3	C	1	Total	C	O	0	0
			4	2	2		
3	D	1	Total	C	O	0	0
			4	2	2		

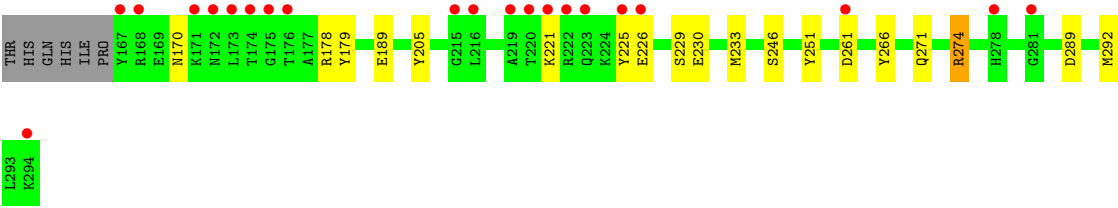
- Molecule 4 is 4-[3-cyclohexyl-5-(4-fluorophenyl)imidazol-4-yl]-1 {H}-pyrrolo[2,3-b]pyridine (CCD ID: EYI) (formula: C₂₂H₂₁FN₄) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
4	A	1	Total	C	F	N	0	0
			27	22	1	4		
4	B	1	Total	C	F	N	0	0
			27	22	1	4		
4	C	1	Total	C	F	N	0	0
			27	22	1	4		
4	D	1	Total	C	F	N	0	0
			27	22	1	4		

- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	99	Total	O	0	0
			99	99		
5	B	97	Total	O	0	0
			97	97		
5	C	70	Total	O	0	0
			70	70		
5	D	67	Total	O	0	0
			67	67		



4 Data and refinement statistics

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	49.21Å 84.95Å 90.07Å 70.84° 74.08° 86.93°	Depositor
Resolution (Å)	49.74 – 2.40 49.74 – 2.40	Depositor EDS
% Data completeness (in resolution range)	92.5 (49.74-2.40) 92.5 (49.74-2.40)	Depositor EDS
R_{merge}	0.12	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.11 (at 2.39Å)	Xtriage
Refinement program	REFMAC 5.8.0230	Depositor
R, R_{free}	0.238 , 0.282 0.247 , 0.285	Depositor DCC
R_{free} test set	2272 reflections (4.38%)	wwPDB-VP
Wilson B-factor (Å ²)	25.9	Xtriage
Anisotropy	0.176	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 42.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.51$, $\langle L^2 \rangle = 0.34$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.89	EDS
Total number of atoms	9801	wwPDB-VP
Average B, all atoms (Å ²)	32.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.85% 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

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: EYL, EDO, SO4

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	0.89	0/2405	0.95	0/3232
1	B	0.91	1/2405 (0.0%)	0.97	0/3232
1	C	0.92	3/2330 (0.1%)	0.98	0/3126
1	D	0.92	2/2330 (0.1%)	0.98	0/3126
All	All	0.91	6/9470 (0.1%)	0.97	0/12716

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	7
1	B	0	3
1	C	0	2
1	D	0	3
All	All	0	15

The worst 5 of 6 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	126	HIS	CE1-NE2	5.95	1.38	1.32
1	D	129	VAL	N-CA	-5.85	1.40	1.46
1	D	266	TYR	N-CA	5.59	1.53	1.46
1	C	266	TYR	N-CA	5.49	1.53	1.46
1	C	129	VAL	C-O	-5.18	1.19	1.23

There are no bond angle outliers.

There are no chirality outliers.

5 of 15 planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	10	ARG	Sidechain
1	A	115	ARG	Sidechain
1	A	168	ARG	Sidechain
1	A	222	ARG	Sidechain
1	A	227	ARG	Sidechain

5.2 Too-close contacts

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	2353	0	2347	23	0
1	B	2353	0	2347	24	0
1	C	2282	0	2288	17	0
1	D	2282	0	2288	16	0
2	A	15	0	0	1	0
2	B	15	0	0	1	0
2	C	10	0	0	1	0
2	D	10	0	0	0	0
3	A	12	0	18	2	0
3	B	16	0	24	1	0
3	C	8	0	12	0	0
3	D	4	0	6	0	0
4	A	27	0	0	0	0
4	B	27	0	0	0	0
4	C	27	0	0	1	0
4	D	27	0	0	0	0
5	A	99	0	0	1	1
5	B	97	0	0	2	0
5	C	70	0	0	1	1
5	D	67	0	0	2	0
All	All	9801	0	9330	72	1

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 72 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:C:274:ARG:NH2	2:C:302:SO4:O2	2.10	0.84
1:B:271:GLN:OE1	1:B:274:ARG:NH1	2.10	0.84
1:C:271:GLN:OE1	1:C:274:ARG:NH1	2.15	0.80
1:D:271:GLN:OE1	1:D:274:ARG:NH1	2.16	0.78
1:D:226:GLU:O	1:D:230:GLU:HG2	1.89	0.71

All (1) 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)
5:A:416:HOH:O	5:C:466:HOH:O[1_456]	2.17	0.03

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	285/296 (96%)	278 (98%)	7 (2%)	0	100	100
1	B	285/296 (96%)	279 (98%)	6 (2%)	0	100	100
1	C	274/296 (93%)	267 (97%)	7 (3%)	0	100	100
1	D	274/296 (93%)	267 (97%)	7 (3%)	0	100	100
All	All	1118/1184 (94%)	1091 (98%)	27 (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	250/260 (96%)	249 (100%)	1 (0%)	84	92
1	B	250/260 (96%)	249 (100%)	1 (0%)	84	92
1	C	243/260 (94%)	242 (100%)	1 (0%)	84	92
1	D	243/260 (94%)	242 (100%)	1 (0%)	84	92
All	All	986/1040 (95%)	982 (100%)	4 (0%)	84	92

All (4) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	104	THR
1	B	104	THR
1	C	104	THR
1	D	104	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (5) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	183	ASN
1	A	190	GLN
1	B	48	GLN
1	B	223	GLN
1	C	78	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 oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

24 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	EDO	B	304	-	3,3,3	0.48	0	2,2,2	0.36	0
4	EYI	C	305	-	31,31,31	0.42	0	40,44,44	0.56	1 (2%)
3	EDO	A	304	-	3,3,3	0.32	0	2,2,2	0.49	0
4	EYI	B	308	-	31,31,31	0.40	0	40,44,44	0.56	1 (2%)
3	EDO	B	306	-	3,3,3	0.45	0	2,2,2	0.53	0
3	EDO	C	304	-	3,3,3	0.47	0	2,2,2	0.32	0
4	EYI	D	304	-	31,31,31	0.53	0	40,44,44	0.68	1 (2%)
3	EDO	C	303	-	3,3,3	0.67	0	2,2,2	0.15	0
2	SO4	A	302	-	4,4,4	0.49	0	6,6,6	0.17	0
2	SO4	C	302	-	4,4,4	0.39	0	6,6,6	0.35	0
2	SO4	B	302	-	4,4,4	0.41	0	6,6,6	0.19	0
2	SO4	A	303	-	4,4,4	0.39	0	6,6,6	0.16	0
3	EDO	B	305	-	3,3,3	0.24	0	2,2,2	0.70	0
2	SO4	B	303	-	4,4,4	0.45	0	6,6,6	0.26	0
4	EYI	A	307	-	31,31,31	0.40	0	40,44,44	0.63	1 (2%)
2	SO4	A	301	-	4,4,4	0.37	0	6,6,6	0.23	0
3	EDO	A	306	-	3,3,3	0.57	0	2,2,2	0.24	0
3	EDO	D	303	-	3,3,3	0.47	0	2,2,2	0.36	0
2	SO4	B	301	-	4,4,4	0.50	0	6,6,6	0.16	0
2	SO4	D	302	-	4,4,4	0.44	0	6,6,6	0.24	0
3	EDO	B	307	-	3,3,3	0.36	0	2,2,2	0.45	0
3	EDO	A	305	-	3,3,3	0.48	0	2,2,2	0.20	0
2	SO4	C	301	-	4,4,4	0.36	0	6,6,6	0.23	0
2	SO4	D	301	-	4,4,4	0.38	0	6,6,6	0.14	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	EDO	A	306	-	-	0/1/1/1	-
3	EDO	B	307	-	-	1/1/1/1	-
3	EDO	D	303	-	-	1/1/1/1	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	EDO	B	304	-	-	1/1/1/1	-
4	EYI	C	305	-	-	4/12/20/20	0/5/5/5
3	EDO	A	304	-	-	0/1/1/1	-
3	EDO	A	305	-	-	1/1/1/1	-
3	EDO	B	305	-	-	0/1/1/1	-
4	EYI	B	308	-	-	3/12/20/20	0/5/5/5
3	EDO	B	306	-	-	1/1/1/1	-
3	EDO	C	304	-	-	1/1/1/1	-
4	EYI	A	307	-	-	4/12/20/20	0/5/5/5
4	EYI	D	304	-	-	4/12/20/20	0/5/5/5
3	EDO	C	303	-	-	1/1/1/1	-

There are no bond length outliers.

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	D	304	EYI	C16-C17-N3	-2.86	124.16	126.40
4	A	307	EYI	C16-C17-N3	-2.44	124.50	126.40
4	C	305	EYI	C16-C17-N3	-2.32	124.59	126.40
4	B	308	EYI	C16-C17-N3	-2.11	124.76	126.40

There are no chirality outliers.

5 of 22 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	A	307	EYI	C21-C15-C7-C6
4	A	307	EYI	C16-C15-C7-C6
4	A	307	EYI	C16-C15-C7-N
4	B	308	EYI	C21-C15-C7-C6
4	B	308	EYI	C16-C15-C7-C6

There are no ring outliers.

6 monomers are involved in 7 short contacts:

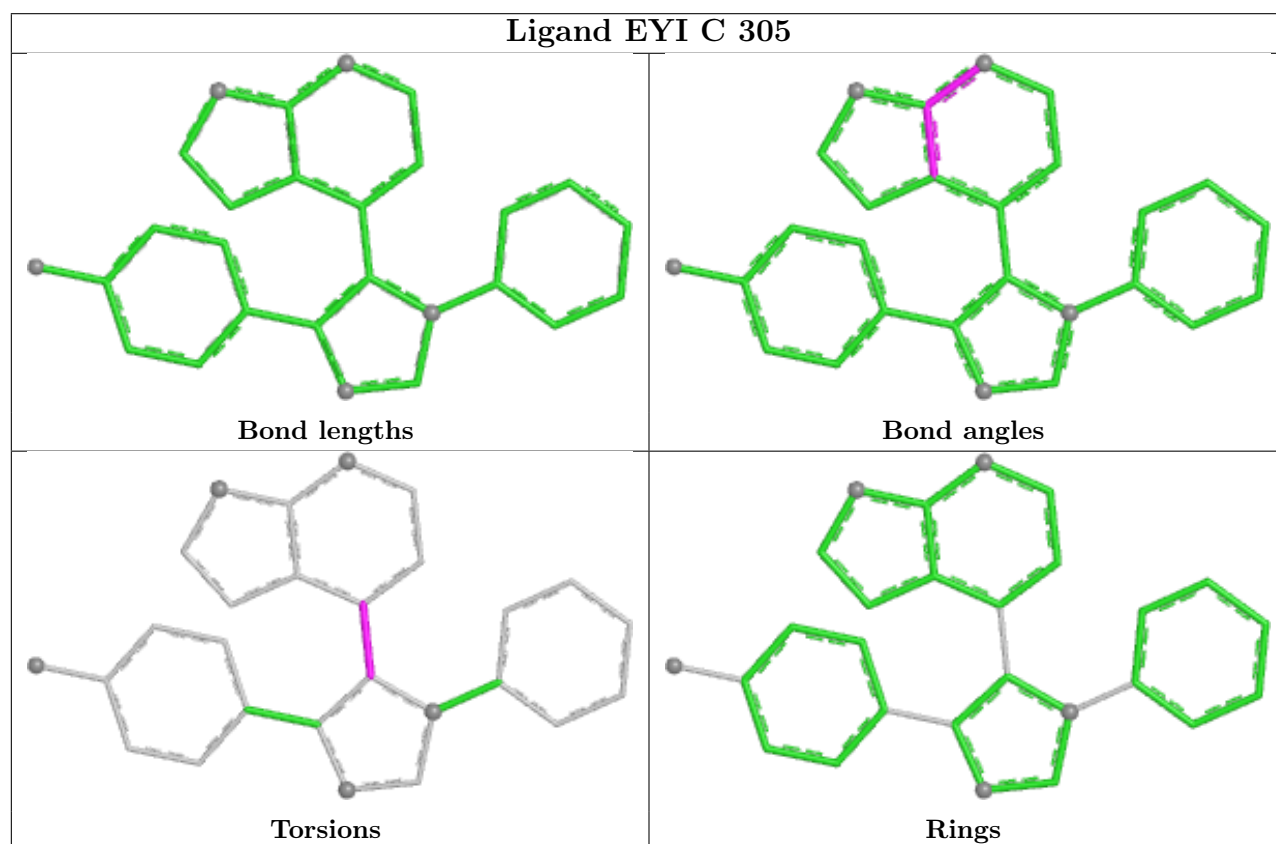
Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	C	305	EYI	1	0
2	C	302	SO4	1	0
2	A	303	SO4	1	0
3	B	305	EDO	1	0
2	B	303	SO4	1	0

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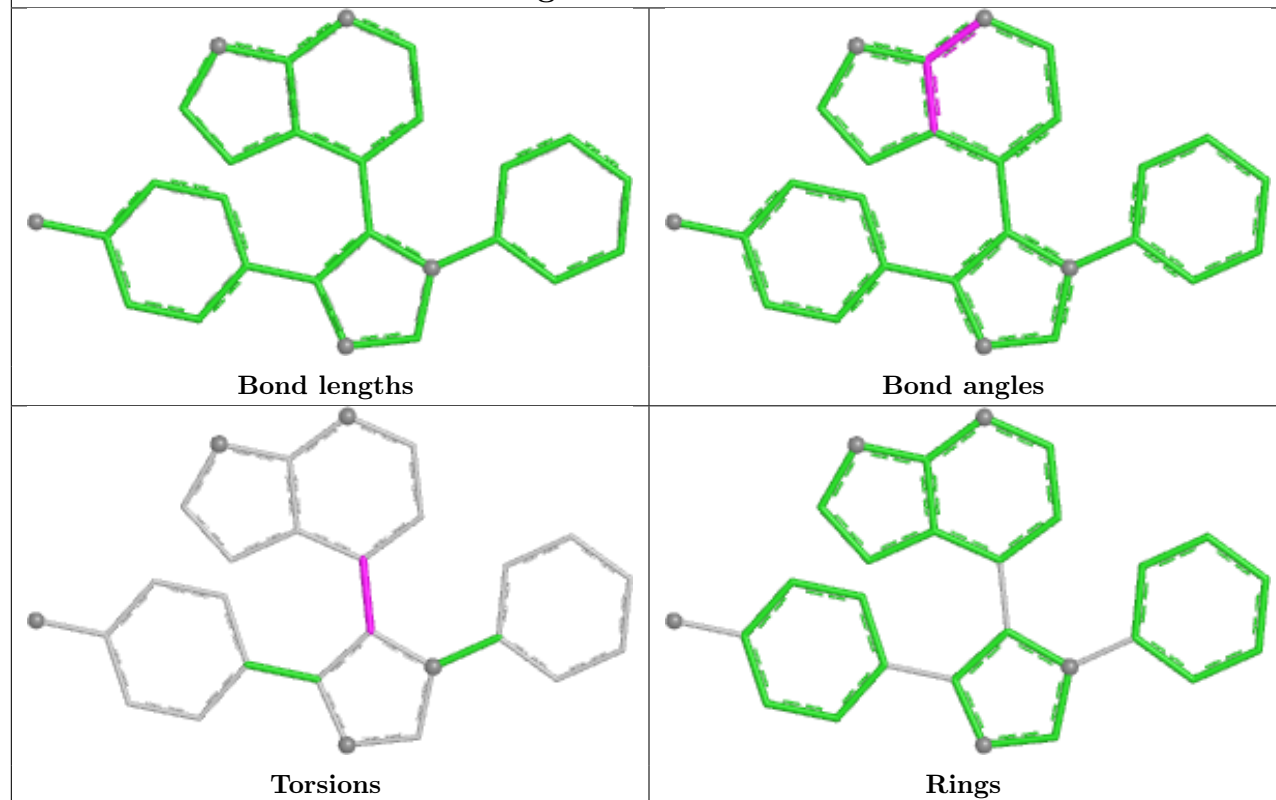
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Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	306	EDO	2	0

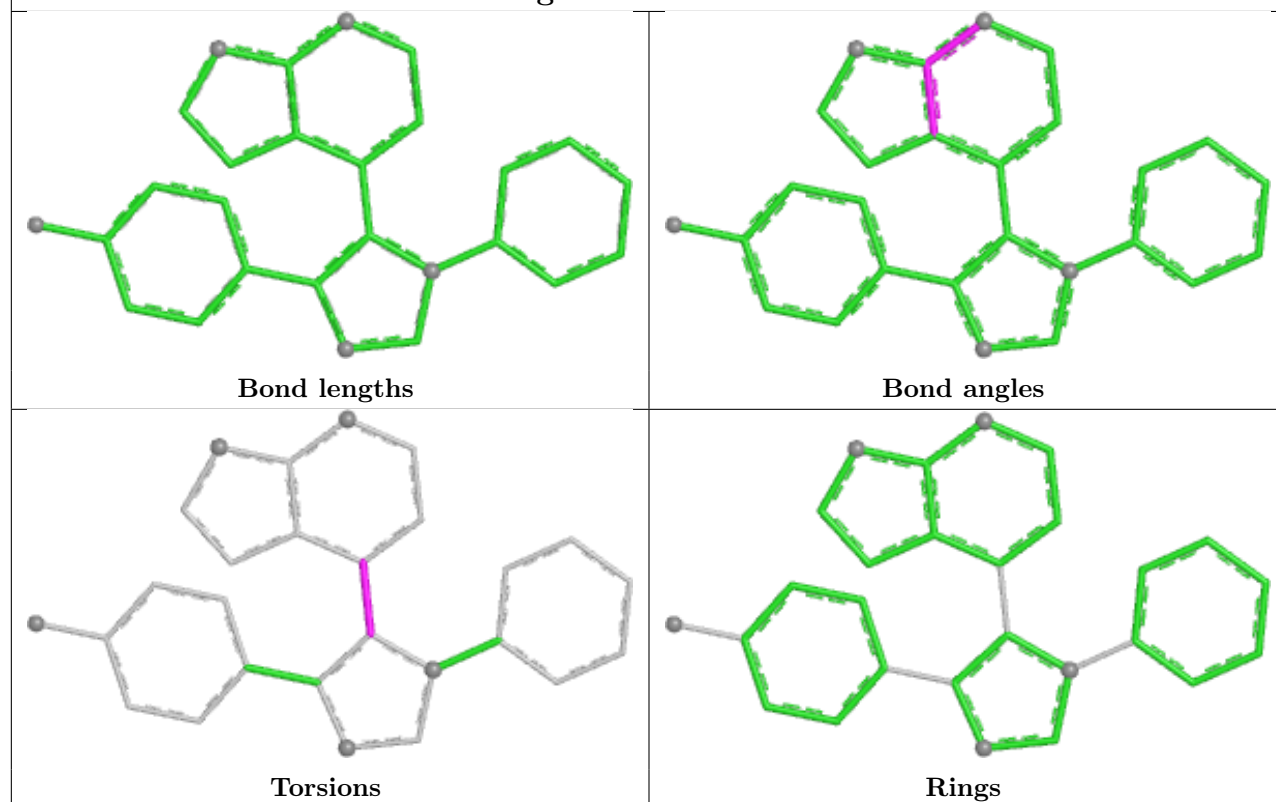
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

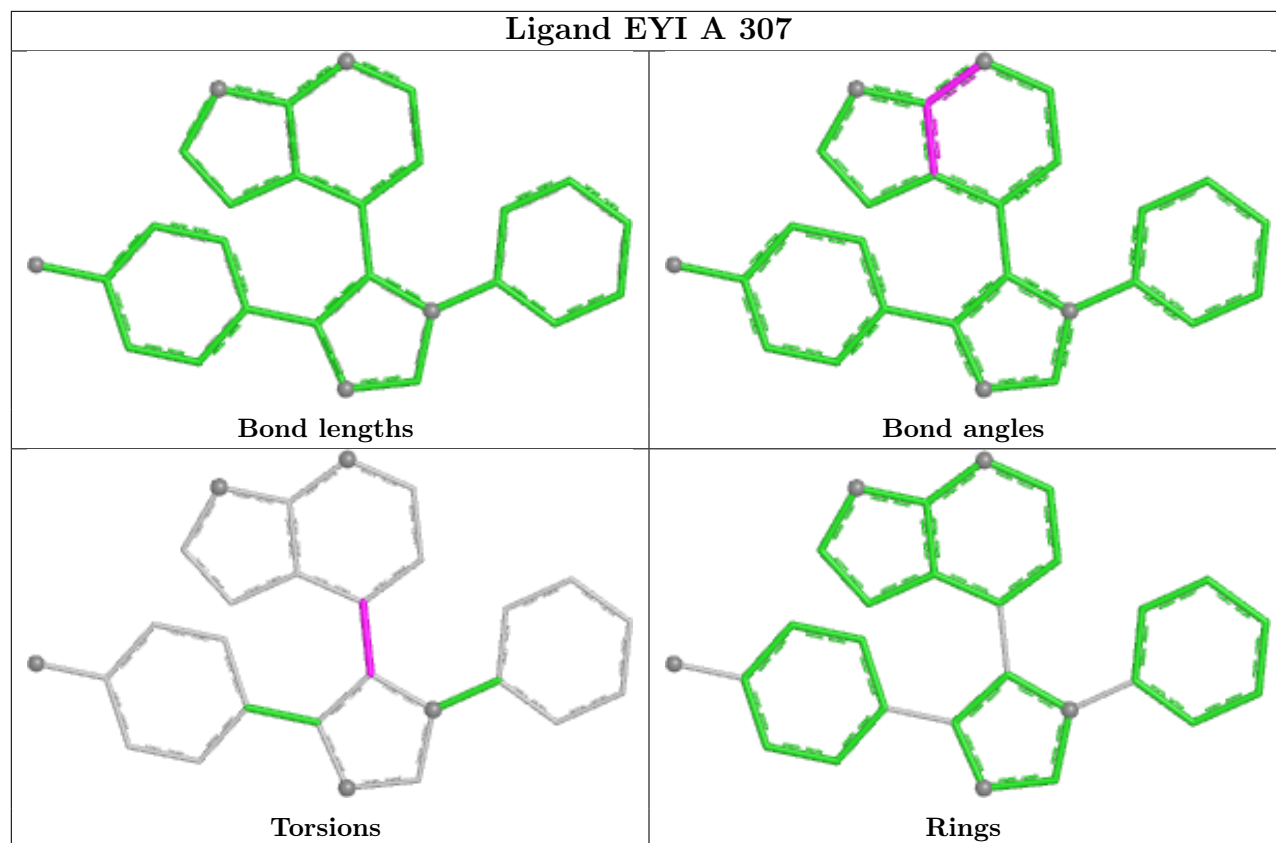


Ligand EYI B 308



Ligand EYI D 304





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	289/296 (97%)	0.75	31 (10%) 11 8	13, 27, 61, 76	0
1	B	289/296 (97%)	0.78	30 (10%) 11 9	14, 27, 62, 80	0
1	C	280/296 (94%)	0.91	39 (13%) 6 5	15, 27, 72, 100	0
1	D	280/296 (94%)	0.87	41 (14%) 6 4	14, 26, 72, 101	0
All	All	1138/1184 (96%)	0.83	141 (12%) 8 6	13, 27, 67, 101	0

The worst 5 of 141 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	17	SER	7.1
1	D	3	LEU	6.0
1	C	3	LEU	5.3
1	C	172	ASN	5.2
1	A	17	SER	5.2

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 oligosaccharides in this entry.

6.4 Ligands [i](#)

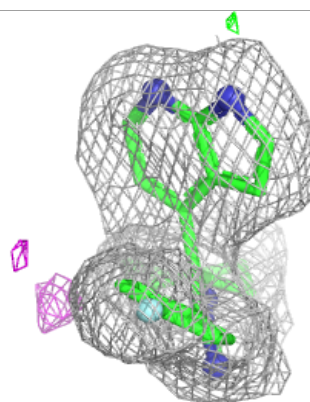
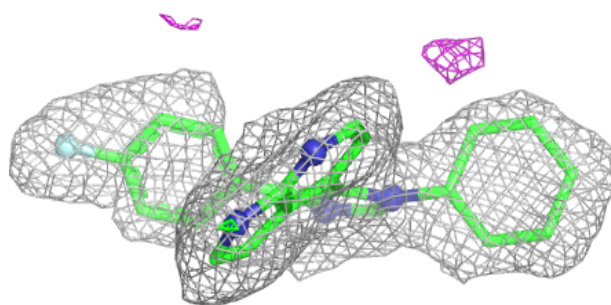
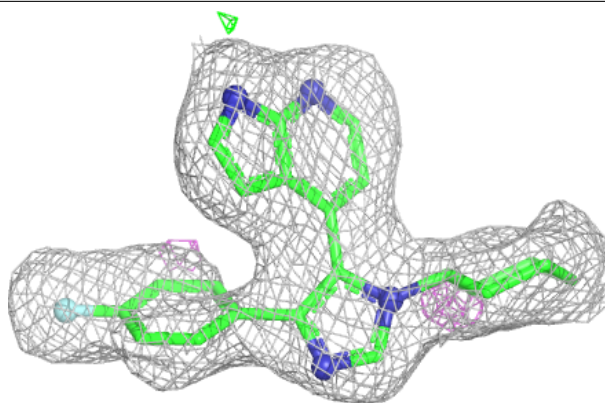
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled ‘Q< 0.9’ lists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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
3	EDO	A	305	4/4	0.72	0.19	48,49,49,51	0
3	EDO	C	304	4/4	0.76	0.19	46,47,47,47	0
3	EDO	B	305	4/4	0.80	0.21	29,29,31,31	0
2	SO4	A	302	5/5	0.83	0.16	67,70,70,73	0
3	EDO	C	303	4/4	0.85	0.16	33,34,36,37	0
3	EDO	A	306	4/4	0.86	0.17	34,37,40,42	0
2	SO4	B	301	5/5	0.86	0.11	51,54,59,62	0
3	EDO	B	307	4/4	0.87	0.14	32,32,33,35	0
3	EDO	B	306	4/4	0.88	0.13	36,37,38,38	0
3	EDO	D	303	4/4	0.88	0.13	36,37,38,44	0
2	SO4	B	303	5/5	0.89	0.11	54,55,58,59	0
4	EYI	C	305	27/27	0.89	0.11	19,27,30,30	0
3	EDO	B	304	4/4	0.90	0.10	30,31,31,34	0
4	EYI	D	304	27/27	0.90	0.09	16,22,23,25	0
3	EDO	A	304	4/4	0.91	0.13	38,38,39,39	0
2	SO4	A	301	5/5	0.91	0.12	48,49,53,59	0
2	SO4	A	303	5/5	0.91	0.11	57,58,58,60	0
4	EYI	A	307	27/27	0.92	0.08	20,24,27,28	0
4	EYI	B	308	27/27	0.93	0.08	20,24,26,26	0
2	SO4	B	302	5/5	0.94	0.08	39,39,42,44	0
2	SO4	C	301	5/5	0.95	0.07	38,40,42,43	0
2	SO4	D	301	5/5	0.95	0.09	34,34,37,40	0
2	SO4	C	302	5/5	0.96	0.09	35,37,39,39	0
2	SO4	D	302	5/5	0.96	0.06	36,37,39,39	0

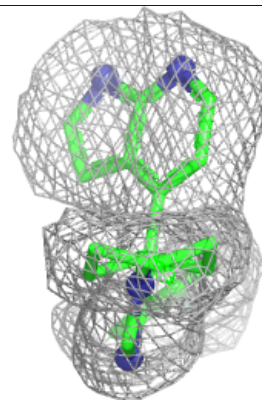
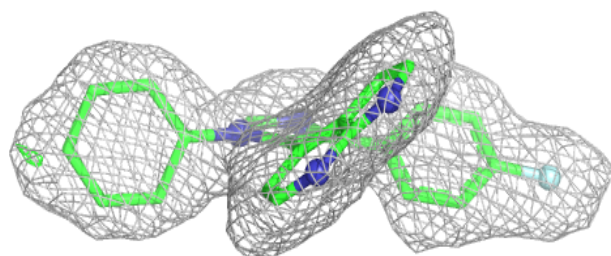
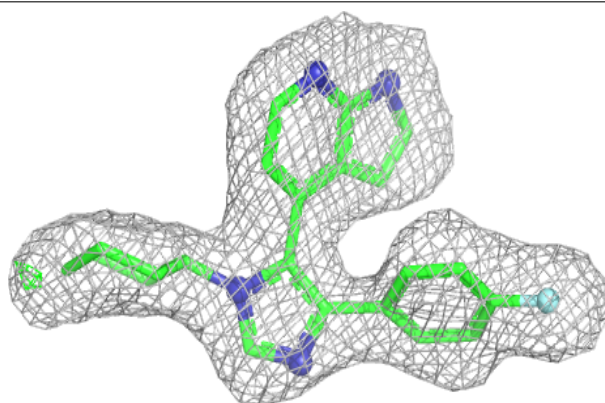
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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

Electron density around EYI C 305:

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

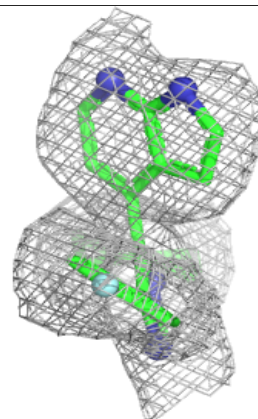
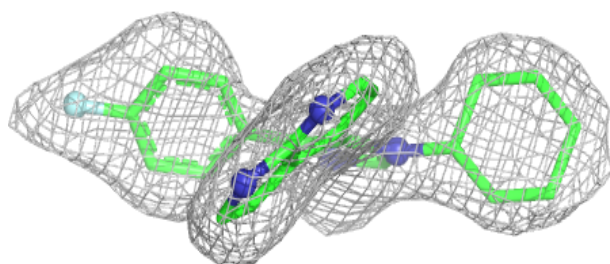
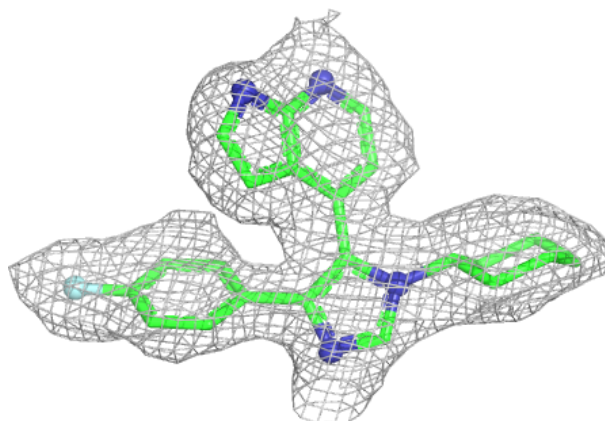
**Electron density around EYI D 304:**

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

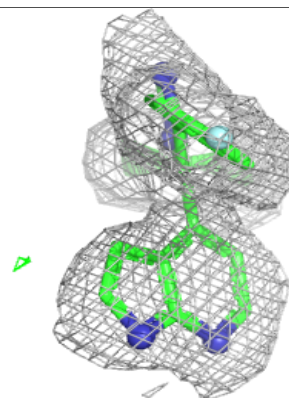
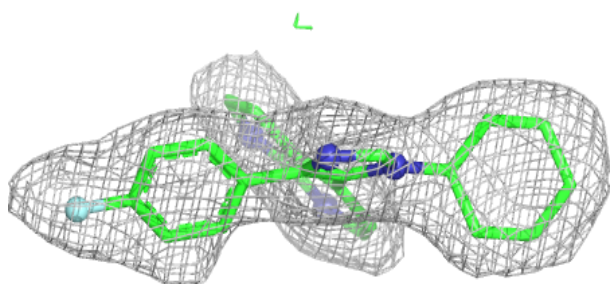
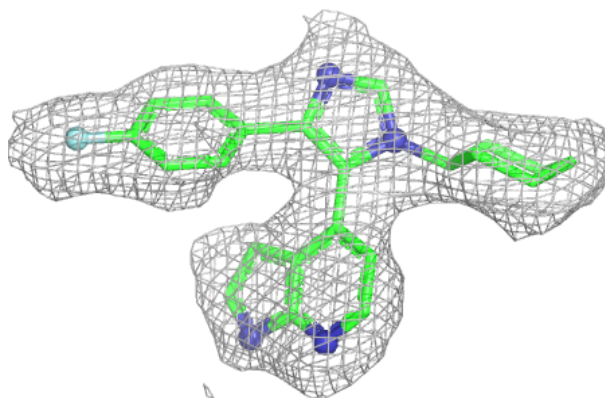


Electron density around EYI A 307:

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

**Electron density around EYI B 308:**

$2mF_o-DF_c$ (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.