



wwPDB X-ray Structure Validation Summary Report ⓘ

Aug 22, 2023 – 09:52 PM EDT

PDB ID : 3CLX
Title : Crystal structure of XIAP BIR3 domain in complex with a Smac-mimetic compound, Smac005
Authors : Milani, M.; Mastrangelo, E.; Cossu, F.
Deposited on : 2008-03-20
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 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 : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.35
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) : 2.35

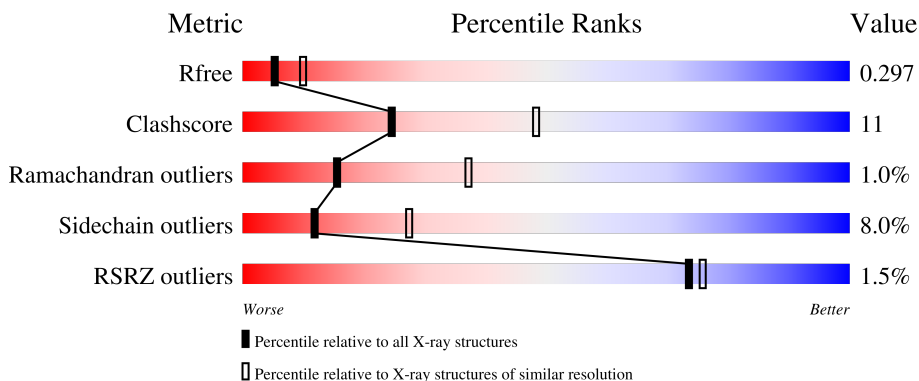
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.70 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 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	130	 2% 59% 15% 24%
1	B	130	 2% 59% 15% 22%
1	C	130	 50% 20% 5% 25%
1	D	130	 2% 58% 18% 22%

2 Entry composition i

There are 4 unique types of molecules in this entry. The entry contains 3527 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 Baculoviral IAP repeat-containing protein 4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	D	101	825	528	141	151	5	0	0	0
1	A	99	804	517	135	147	5	0	0	0
1	B	101	833	533	144	151	5	0	1	0
1	C	98	799	514	134	146	5	0	0	0

There are 56 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
D	227	MET	-	expression tag	UNP P98170
D	228	ALA	-	expression tag	UNP P98170
D	229	SER	-	expression tag	UNP P98170
D	230	MET	-	expression tag	UNP P98170
D	231	THR	-	expression tag	UNP P98170
D	232	GLY	-	expression tag	UNP P98170
D	233	GLY	-	expression tag	UNP P98170
D	234	GLN	-	expression tag	UNP P98170
D	235	GLN	-	expression tag	UNP P98170
D	236	MET	-	expression tag	UNP P98170
D	237	GLY	-	expression tag	UNP P98170
D	238	ARG	-	expression tag	UNP P98170
D	239	GLY	-	expression tag	UNP P98170
D	240	SER	-	expression tag	UNP P98170
A	227	MET	-	expression tag	UNP P98170
A	228	ALA	-	expression tag	UNP P98170
A	229	SER	-	expression tag	UNP P98170
A	230	MET	-	expression tag	UNP P98170
A	231	THR	-	expression tag	UNP P98170
A	232	GLY	-	expression tag	UNP P98170
A	233	GLY	-	expression tag	UNP P98170

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Chain	Residue	Modelled	Actual	Comment	Reference
A	234	GLN	-	expression tag	UNP P98170
A	235	GLN	-	expression tag	UNP P98170
A	236	MET	-	expression tag	UNP P98170
A	237	GLY	-	expression tag	UNP P98170
A	238	ARG	-	expression tag	UNP P98170
A	239	GLY	-	expression tag	UNP P98170
A	240	SER	-	expression tag	UNP P98170
B	227	MET	-	expression tag	UNP P98170
B	228	ALA	-	expression tag	UNP P98170
B	229	SER	-	expression tag	UNP P98170
B	230	MET	-	expression tag	UNP P98170
B	231	THR	-	expression tag	UNP P98170
B	232	GLY	-	expression tag	UNP P98170
B	233	GLY	-	expression tag	UNP P98170
B	234	GLN	-	expression tag	UNP P98170
B	235	GLN	-	expression tag	UNP P98170
B	236	MET	-	expression tag	UNP P98170
B	237	GLY	-	expression tag	UNP P98170
B	238	ARG	-	expression tag	UNP P98170
B	239	GLY	-	expression tag	UNP P98170
B	240	SER	-	expression tag	UNP P98170
C	227	MET	-	expression tag	UNP P98170
C	228	ALA	-	expression tag	UNP P98170
C	229	SER	-	expression tag	UNP P98170
C	230	MET	-	expression tag	UNP P98170
C	231	THR	-	expression tag	UNP P98170
C	232	GLY	-	expression tag	UNP P98170
C	233	GLY	-	expression tag	UNP P98170
C	234	GLN	-	expression tag	UNP P98170
C	235	GLN	-	expression tag	UNP P98170
C	236	MET	-	expression tag	UNP P98170
C	237	GLY	-	expression tag	UNP P98170
C	238	ARG	-	expression tag	UNP P98170
C	239	GLY	-	expression tag	UNP P98170
C	240	SER	-	expression tag	UNP P98170

- Molecule 2 is ZINC ION (three-letter code: ZN) (formula: Zn).

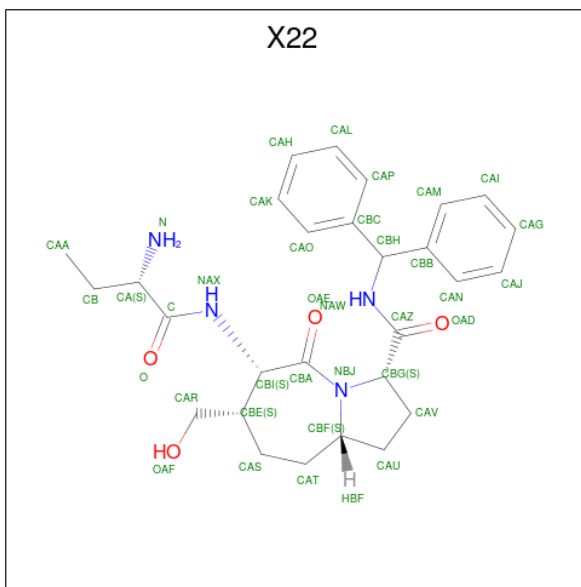
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	D	1	Total Zn 1 1	0	0
2	A	1	Total Zn 1 1	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	B	1	Total	Zn	0	0
			1	1		
2	C	1	Total	Zn	0	0
			1	1		

- Molecule 3 is (3S,6S,7S,9aS)-6-[[[(2S)-2-aminobutanoyl]amino]-N-(diphenylmethyl)-7-(hydroxymethyl)-5-oxooctahydro-1H-pyrrolo[1,2-a]azepine-3-carboxamide (three-letter code: X22) (formula: C₂₈H₃₆N₄O₄).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	
3	D	1	Total	C	N	O	0	0
			36	28	4	4		
3	A	1	Total	C	N	O	0	0
			36	28	4	4		
3	B	1	Total	C	N	O	0	0
			36	28	4	4		
3	C	1	Total	C	N	O	0	0
			36	28	4	4		
3	C	1	Total	C	N	O	0	0
			36	28	4	4		
3	C	1	Total	C	N	O	0	0
			36	28	4	4		

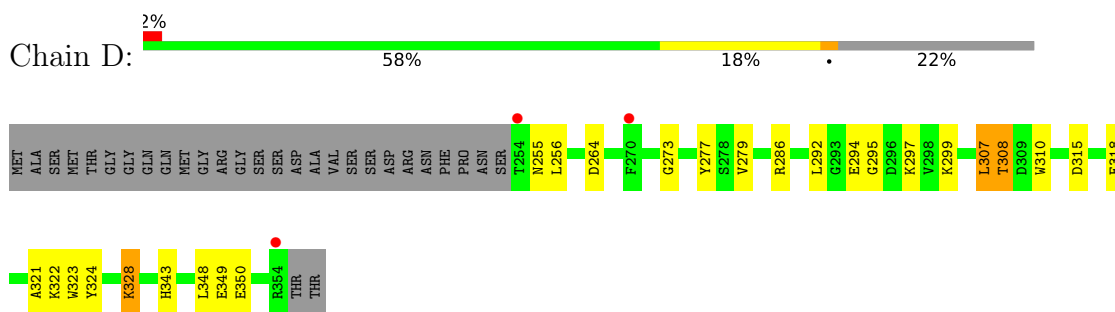
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	D	15	Total 15	O 15	0	0
4	A	10	Total 10	O 10	0	0
4	B	8	Total 8	O 8	0	0
4	C	13	Total 13	O 13	0	0

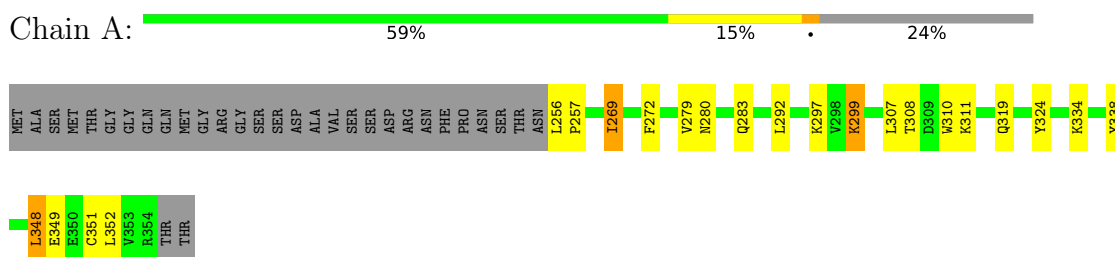
3 Residue-property plots [i](#)

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.

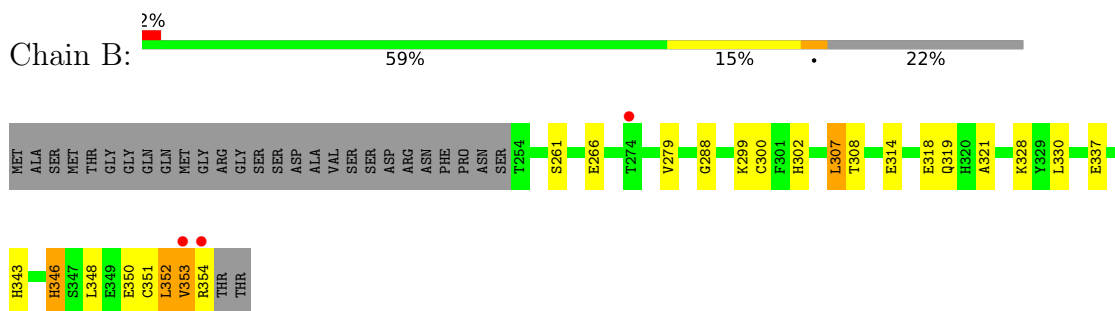
- Molecule 1: Baculoviral IAP repeat-containing protein 4



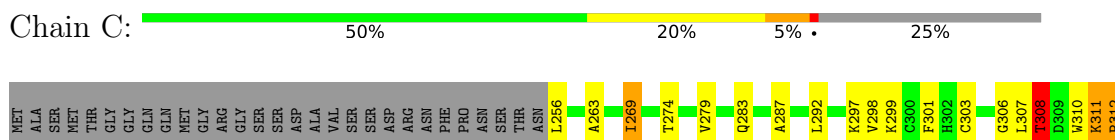
- Molecule 1: Baculoviral IAP repeat-containing protein 4



- Molecule 1: Baculoviral IAP repeat-containing protein 4



- Molecule 1: Baculoviral IAP repeat-containing protein 4



S318	E314	D315	P316	W317	E318	K322	C327	E332	L342	H343	L344	S347	L348	E349	E350	C351	L352	V353	ARG	THR	THR
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4 Data and refinement statistics i

Property	Value	Source
Space group	C 2 2 21	Depositor
Cell constants a, b, c, α , β , γ	64.88Å 115.28Å 163.23Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	40.00 – 2.70 39.57 – 2.70	Depositor EDS
% Data completeness (in resolution range)	95.2 (40.00-2.70) 95.2 (39.57-2.70)	Depositor EDS
R_{merge}	0.13	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.44 (at 2.69Å)	Xtrriage
Refinement program	REFMAC 5.2.0019	Depositor
R, R_{free}	0.221 , 0.306 0.216 , 0.297	Depositor DCC
R_{free} test set	824 reflections (5.03%)	wwPDB-VP
Wilson B-factor (Å ²)	38.7	Xtrriage
Anisotropy	0.193	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 47.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.46$, $\langle L^2 \rangle = 0.29$	Xtrriage
Estimated twinning fraction	0.035 for 1/2*h-1/2*k,-3/2*h-1/2*k,-l 0.048 for 1/2*h+1/2*k,3/2*h-1/2*k,-l	Xtrriage
F_o, F_c correlation	0.91	EDS
Total number of atoms	3527	wwPDB-VP
Average B, all atoms (Å ²)	35.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.25% 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: X22, ZN

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	0/830	0.58	0/1125
1	B	0.42	0/860	0.56	0/1165
1	C	0.44	0/825	0.59	0/1118
1	D	0.47	0/851	0.59	0/1153
All	All	0.45	0/3366	0.58	0/4561

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	B	0	2
1	C	0	1
All	All	0	3

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (3) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	B	350	GLU	Peptide
1	B	352	LEU	Peptide
1	C	308	THR	Peptide

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	804	0	751	17	0
1	B	833	0	776	15	0
1	C	799	0	749	25	0
1	D	825	0	775	17	0
2	A	1	0	0	0	0
2	B	1	0	0	0	0
2	C	1	0	0	0	0
2	D	1	0	0	0	0
3	A	36	0	36	2	0
3	B	36	0	36	2	0
3	C	108	0	107	10	0
3	D	36	0	36	3	0
4	A	10	0	0	0	0
4	B	8	0	0	4	0
4	C	13	0	0	1	0
4	D	15	0	0	3	0
All	All	3527	0	3266	72	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 11.

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:B:352:LEU:O	1:B:353:VAL:HG22	1.85	0.76
1:A:351:CYS:HG	1:C:351:CYS:HG	0.74	0.73
1:B:343:HIS:ND1	4:B:18:HOH:O	2.30	0.64
1:C:303:CYS:HB3	1:C:327:CYS:HB2	1.79	0.64
1:D:350:GLU:HG2	4:D:24:HOH:O	2.00	0.62

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	97/130 (75%)	95 (98%)	2 (2%)	0	100	100
1	B	100/130 (77%)	95 (95%)	4 (4%)	1 (1%)	15	37
1	C	96/130 (74%)	90 (94%)	4 (4%)	2 (2%)	7	18
1	D	99/130 (76%)	95 (96%)	3 (3%)	1 (1%)	15	37
All	All	392/520 (75%)	375 (96%)	13 (3%)	4 (1%)	15	37

All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	D	273	GLY
1	B	353	VAL
1	C	312	PRO
1	C	332	GLU

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	83/109 (76%)	80 (96%)	3 (4%)	35	64
1	B	86/109 (79%)	76 (88%)	10 (12%)	5	12
1	C	83/109 (76%)	75 (90%)	8 (10%)	8	19
1	D	86/109 (79%)	79 (92%)	7 (8%)	11	27
All	All	338/436 (78%)	310 (92%)	28 (8%)	12	25

5 of 28 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	307	LEU
1	C	352	LEU
1	B	346[A]	HIS
1	C	311	LYS
1	B	337	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 6 such sidechains are listed below:

Mol	Chain	Res	Type
1	B	302	HIS
1	C	259	ASN
1	C	283	GLN
1	D	343	HIS
1	D	255	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](#)

Of 10 ligands modelled in this entry, 4 are monoatomic - leaving 6 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	X22	C	700	-	37,39,39	0.75	1 (2%)	41,54,54	1.83	8 (19%)
3	X22	B	600	-	37,39,39	0.81	2 (5%)	41,54,54	1.58	6 (14%)
3	X22	A	600	-	37,39,39	0.82	1 (2%)	41,54,54	1.64	6 (14%)
3	X22	C	600	-	37,39,39	0.96	3 (8%)	41,54,54	3.18	11 (26%)
3	X22	C	701	-	37,39,39	0.95	1 (2%)	41,54,54	1.49	8 (19%)
3	X22	D	600	-	37,39,39	0.70	0	41,54,54	1.78	11 (26%)

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	X22	C	700	-	-	5/28/58/58	0/4/4/4
3	X22	B	600	-	-	9/28/58/58	0/4/4/4
3	X22	A	600	-	-	5/28/58/58	0/4/4/4
3	X22	C	600	-	-	7/28/58/58	0/4/4/4
3	X22	C	701	-	-	4/28/58/58	0/4/4/4
3	X22	D	600	-	-	3/28/58/58	0/4/4/4

The worst 5 of 8 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	600	X22	CBC-CBH	2.90	1.56	1.52
3	C	701	X22	CBA-NBJ	-2.83	1.32	1.35
3	C	700	X22	CBA-NBJ	-2.38	1.32	1.35
3	A	600	X22	CBG-NBJ	2.33	1.50	1.46
3	B	600	X22	CBH-NAW	2.27	1.49	1.47

The worst 5 of 50 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	600	X22	CBG-NBJ-CBA	9.37	131.26	118.60
3	C	600	X22	CBB-CBH-NAW	9.31	127.93	111.30
3	C	600	X22	CAZ-CBG-NBJ	9.05	131.13	112.39
3	C	600	X22	CBG-NBJ-CBF	-6.09	102.33	112.52
3	C	600	X22	CAU-CAV-CBG	-5.57	96.18	103.84

There are no chirality outliers.

5 of 33 torsion outliers are listed below:

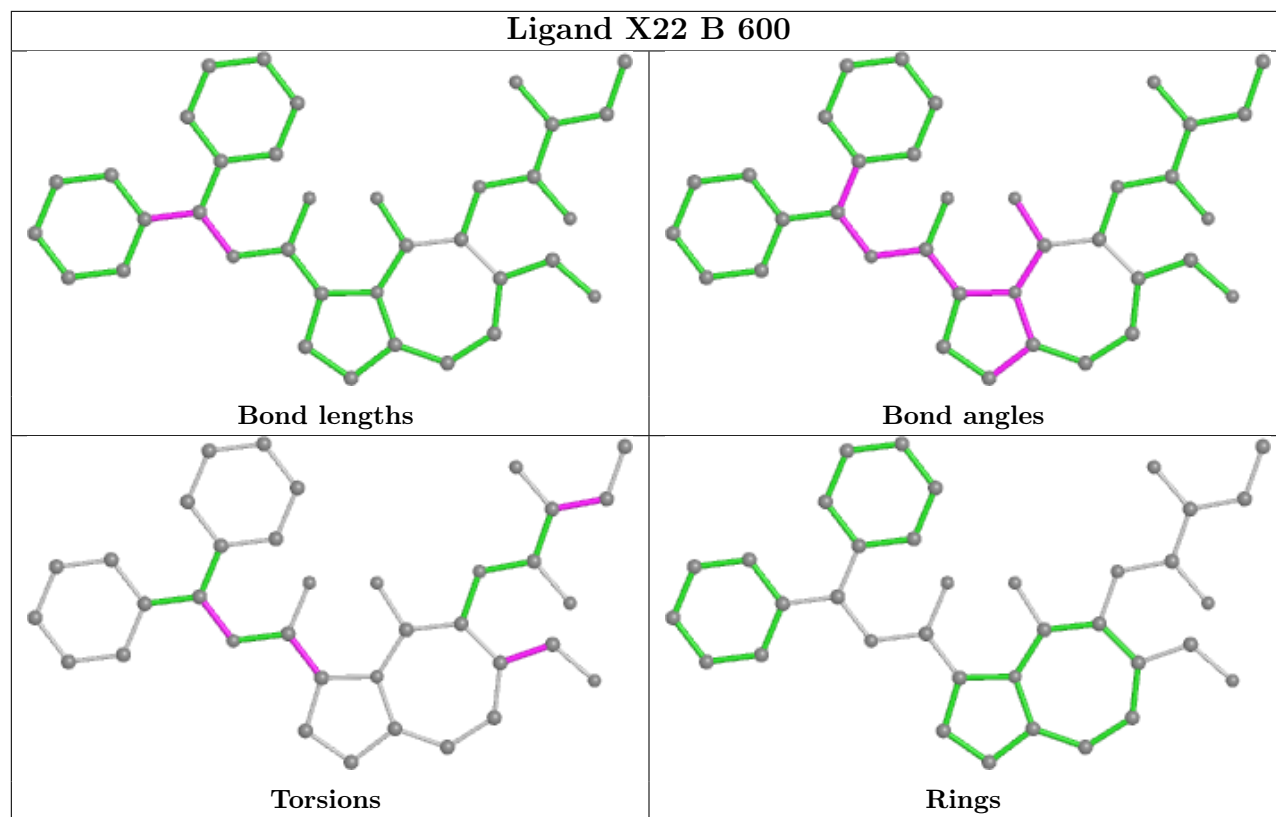
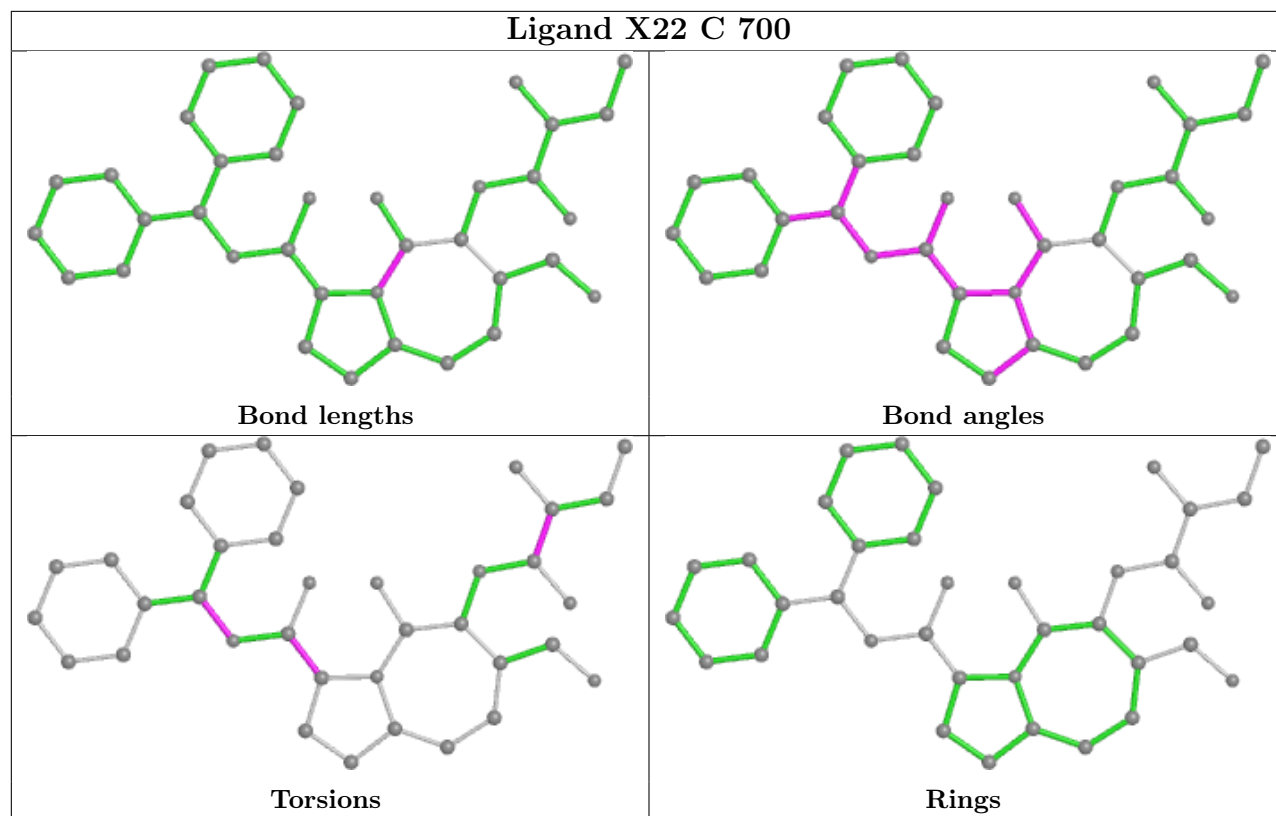
Mol	Chain	Res	Type	Atoms
3	D	600	X22	OAF-CAR-CBE-CBI
3	D	600	X22	OAF-CAR-CBE-CAS
3	D	600	X22	CBC-CBH-NAW-CAZ
3	A	600	X22	OAF-CAR-CBE-CBI
3	A	600	X22	OAF-CAR-CBE-CAS

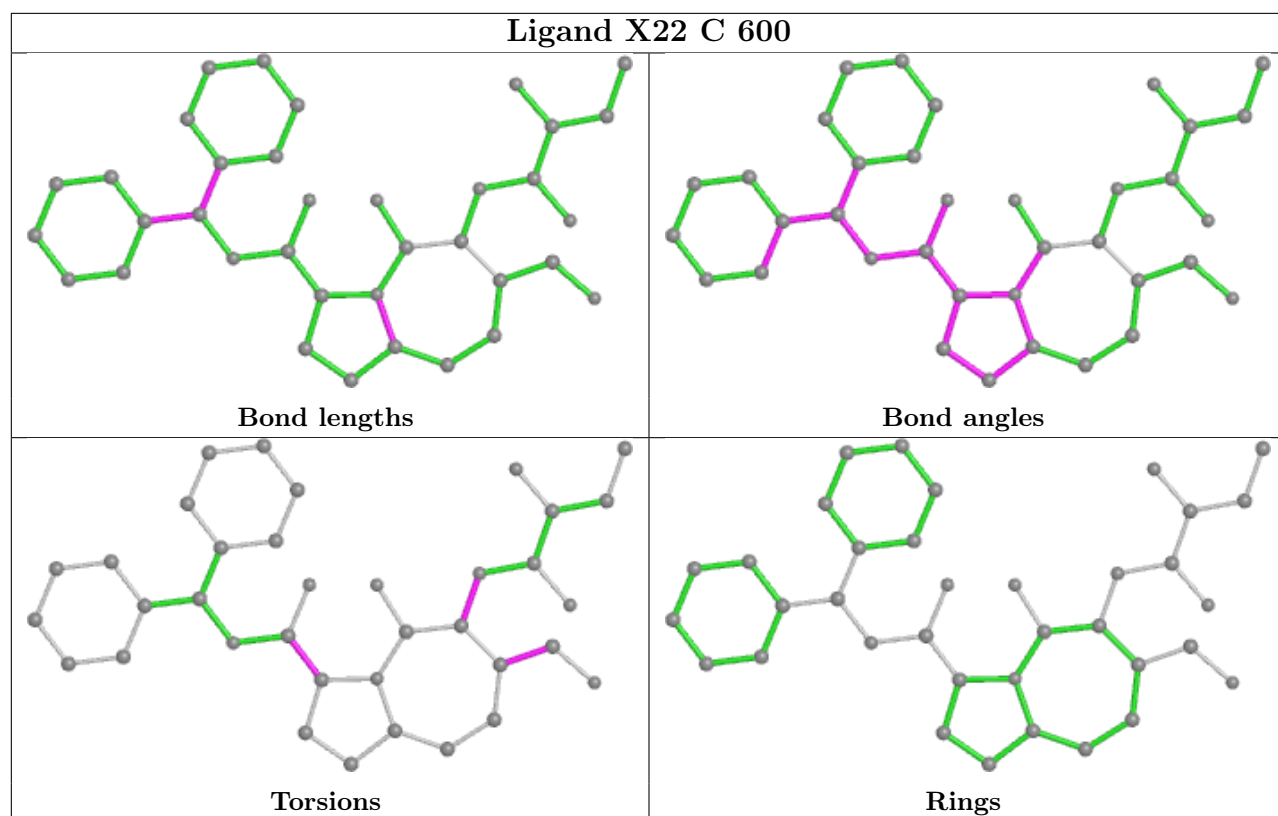
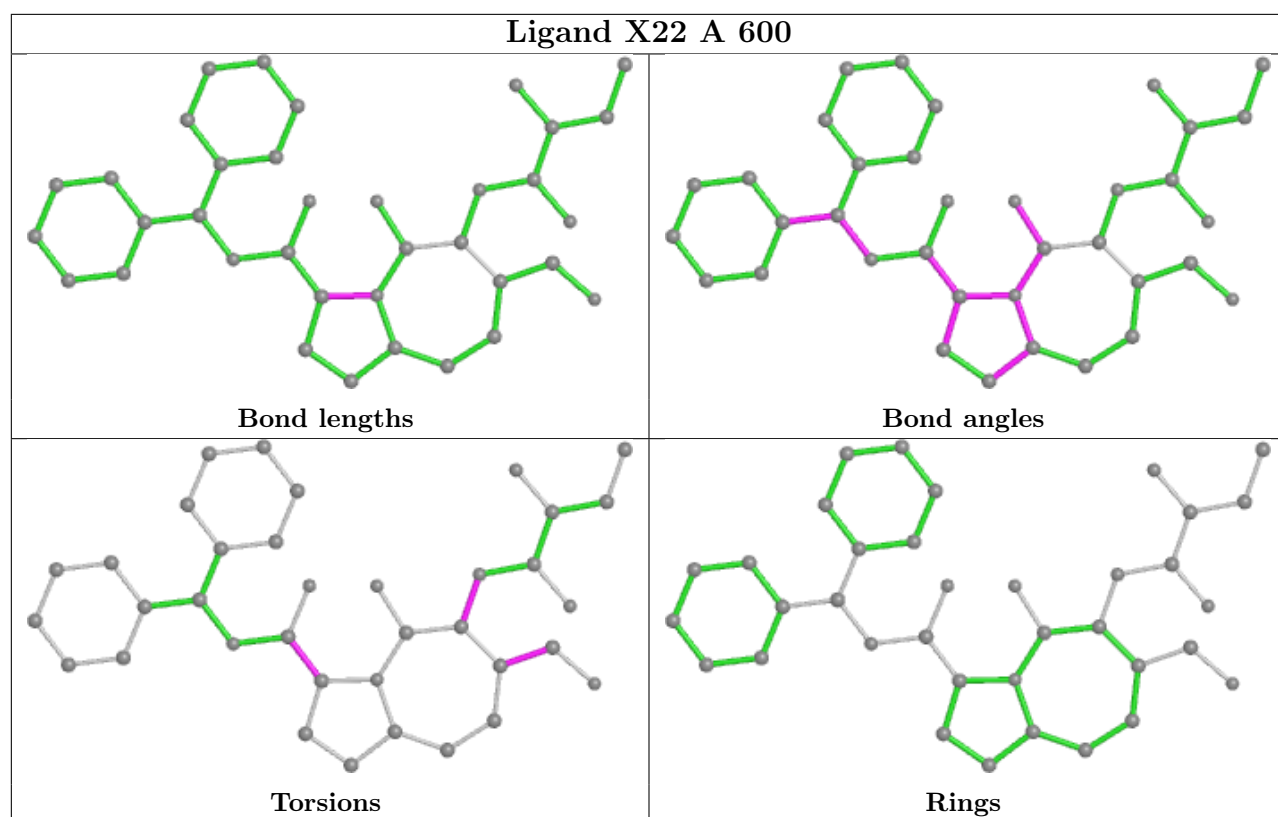
There are no ring outliers.

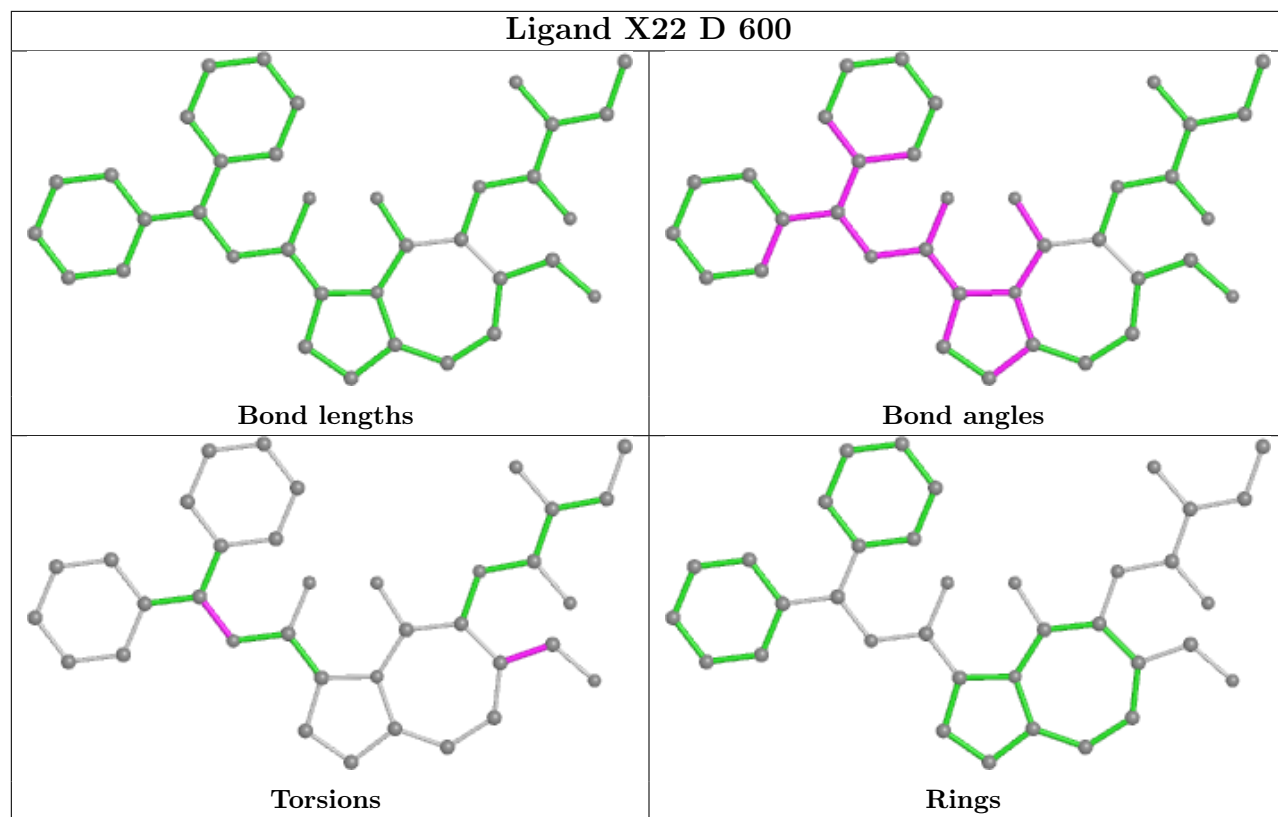
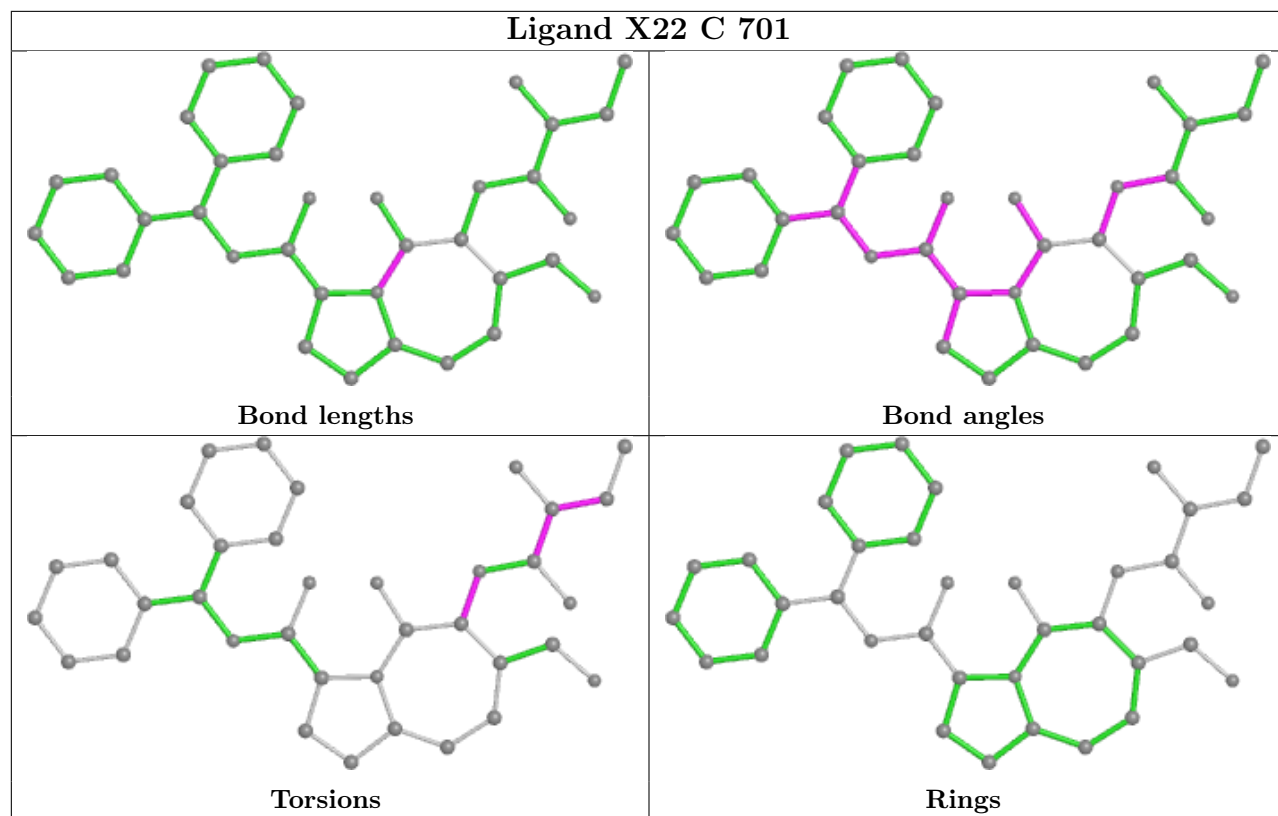
6 monomers are involved in 17 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	C	700	X22	4	0
3	B	600	X22	2	0
3	A	600	X22	2	0
3	C	600	X22	4	0
3	C	701	X22	2	0
3	D	600	X22	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 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

There are no such residues in this entry.

5.8 Polymer linkage issues

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	99/130 (76%)	-0.21	0 100 100	15, 32, 46, 53	0
1	B	101/130 (77%)	-0.10	3 (2%) 50 51	23, 37, 55, 71	1 (0%)
1	C	98/130 (75%)	-0.28	0 100 100	15, 34, 50, 57	3 (3%)
1	D	101/130 (77%)	-0.12	3 (2%) 50 51	13, 34, 56, 75	2 (1%)
All	All	399/520 (76%)	-0.18	6 (1%) 73 76	13, 34, 54, 75	6 (1%)

The worst 5 of 6 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	D	270	PHE	3.6
1	B	354	ARG	3.4
1	D	254	THR	2.6
1	B	353	VAL	2.1
1	B	274	THR	2.0

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](#)

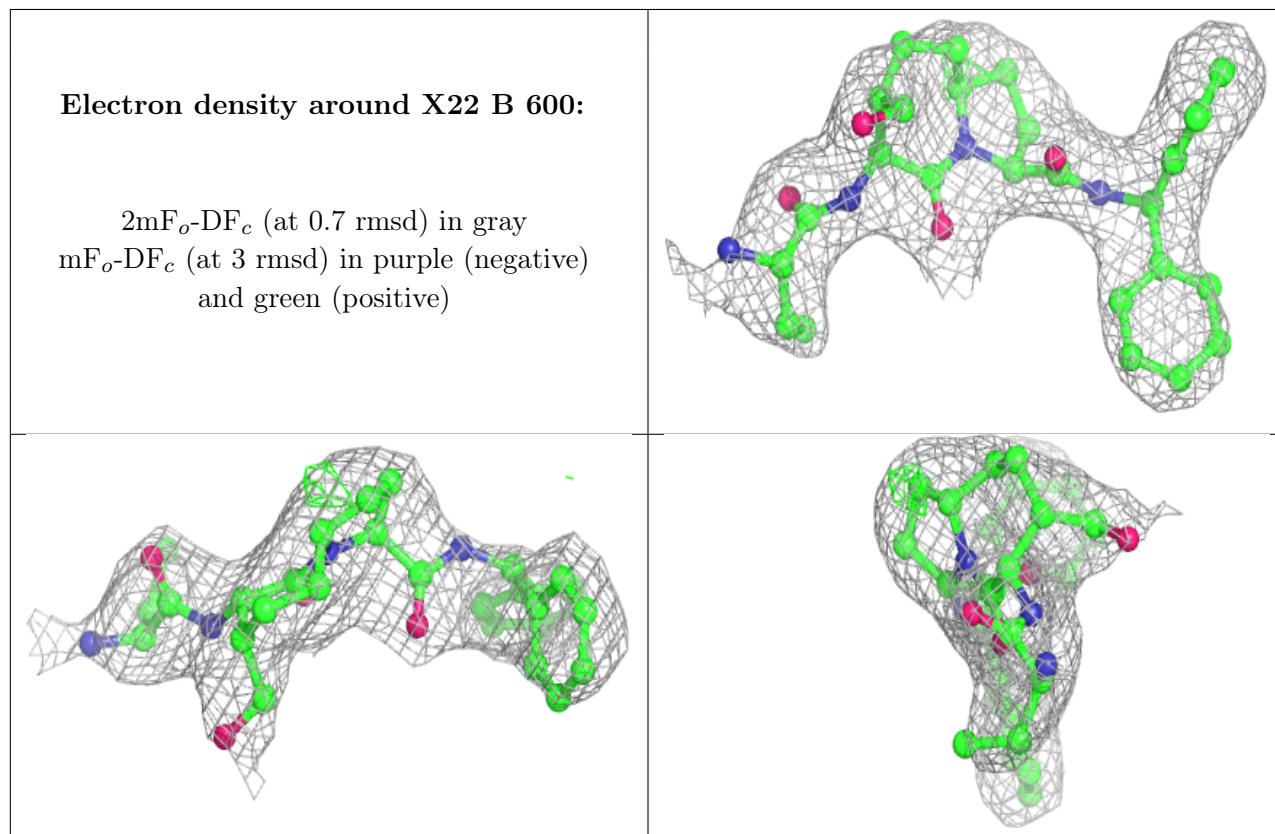
There are no monosaccharides in this entry.

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.

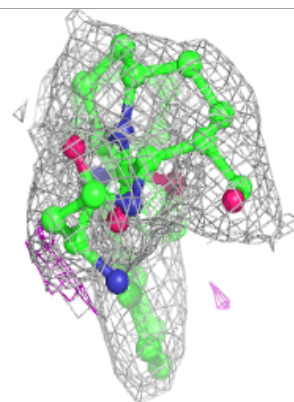
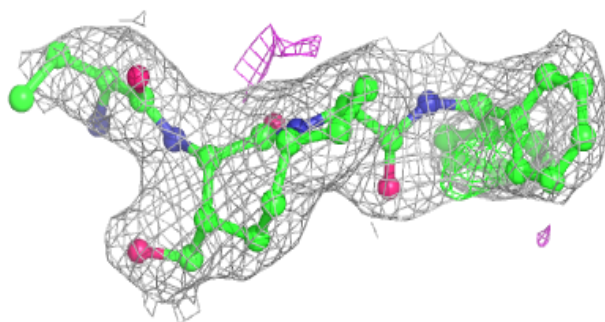
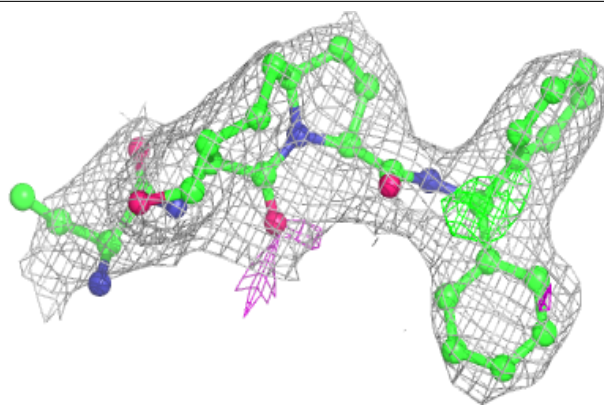
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
3	X22	B	600	36/36	0.91	0.21	35,48,58,62	0
3	X22	C	700	36/36	0.94	0.21	23,34,53,57	0
3	X22	C	600	36/36	0.94	0.19	16,30,42,54	0
3	X22	A	600	36/36	0.95	0.17	17,30,39,49	0
3	X22	D	600	36/36	0.95	0.18	13,28,40,41	0
3	X22	C	701	36/36	0.95	0.16	10,26,36,39	0
2	ZN	D	502	1/1	0.99	0.07	27,27,27,27	0
2	ZN	B	502	1/1	0.99	0.09	33,33,33,33	0
2	ZN	C	502	1/1	0.99	0.08	23,23,23,23	0
2	ZN	A	502	1/1	1.00	0.08	27,27,27,27	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.

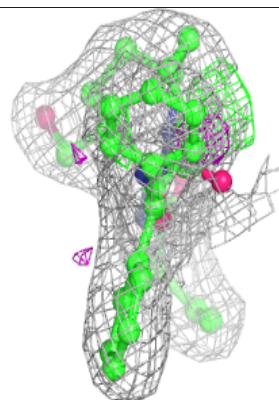
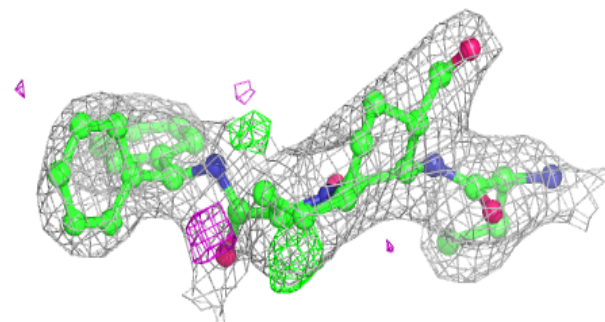
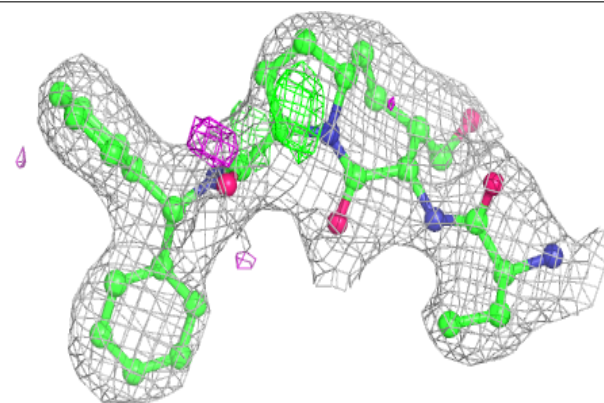


Electron density around X22 C 700:

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

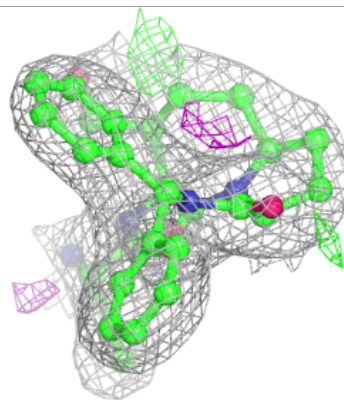
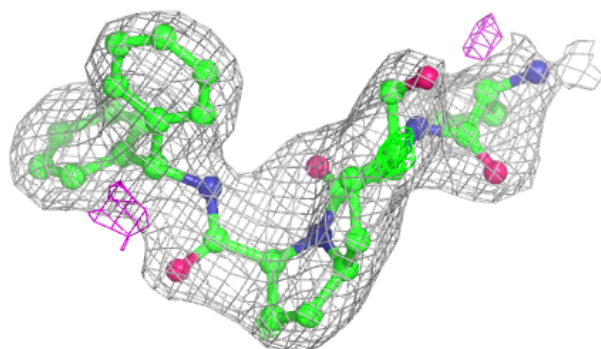
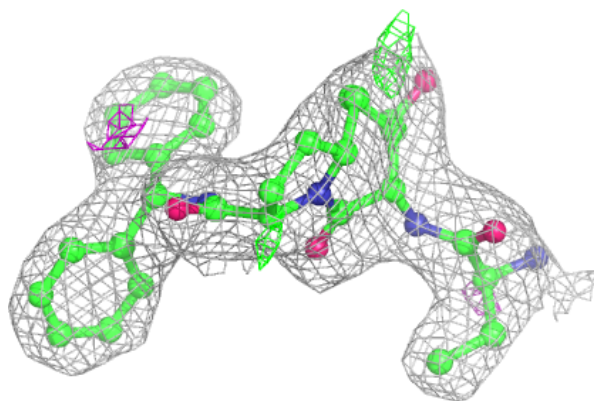
**Electron density around X22 C 600:**

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

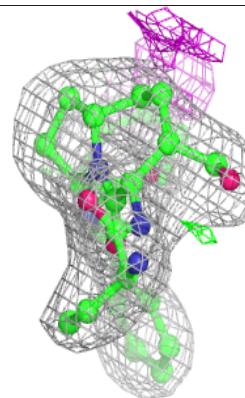
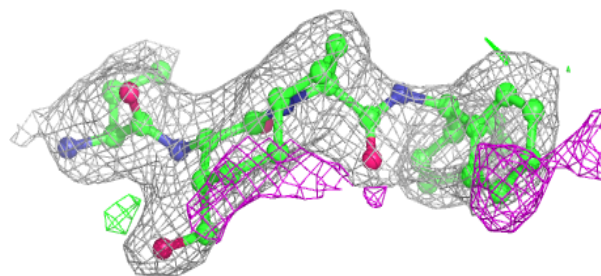
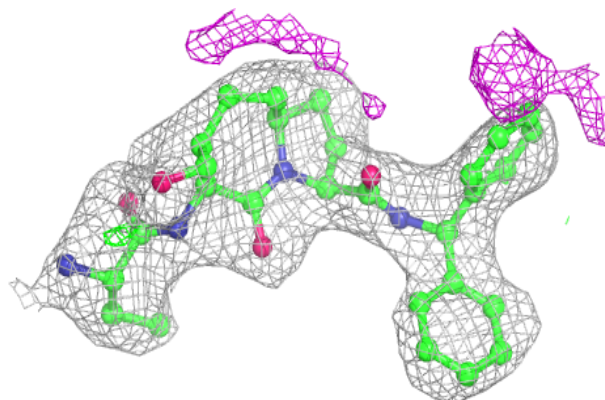


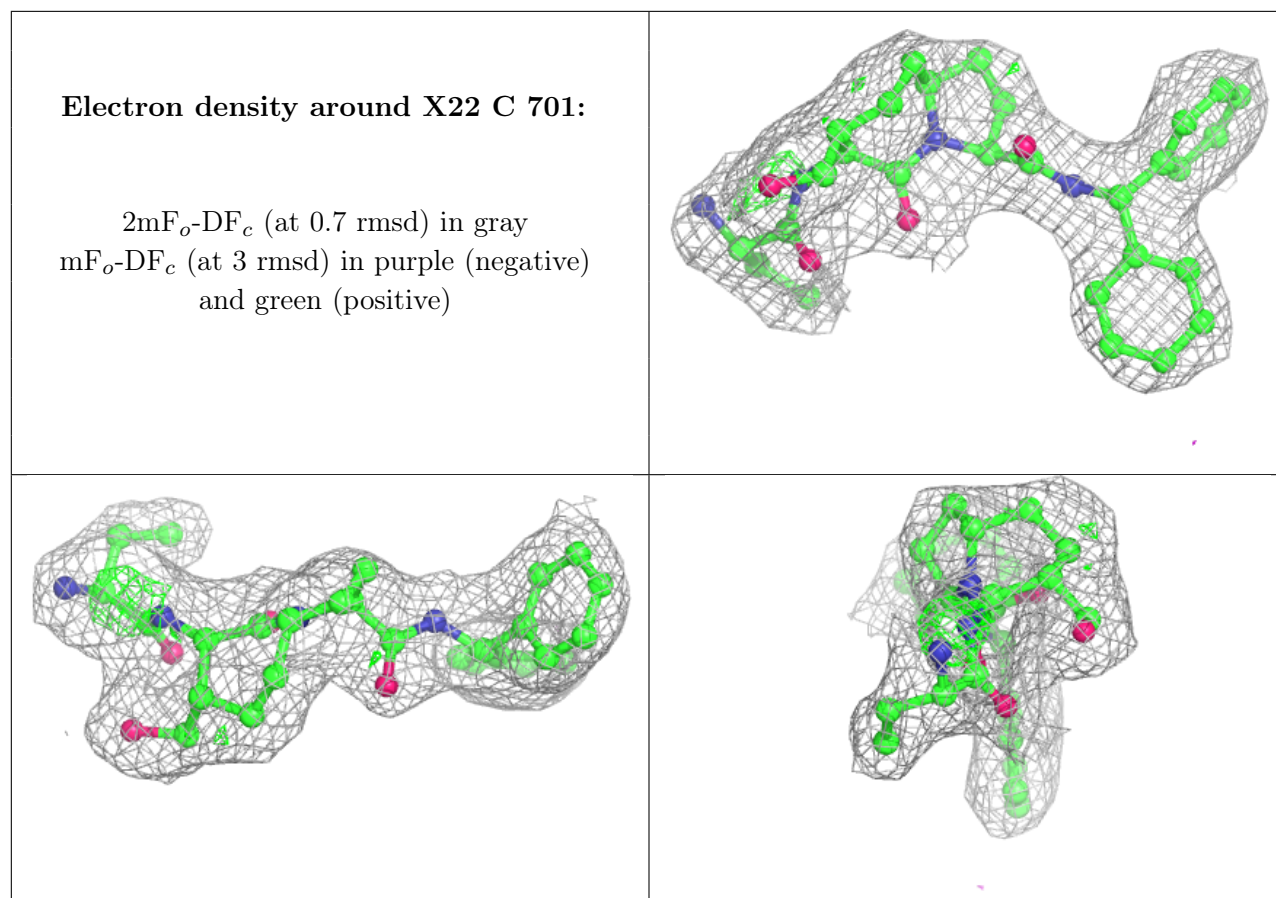
Electron density around X22 A 600:

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

**Electron density around X22 D 600:**

$2mF_o-DF_c$ (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.