



wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 5, 2026 – 12:42 PM UTC

PDB ID : 6YYP / pdb_00006yyp
Title : Structure of Cathepsin S in complex with Compound 2
Authors : Wagener, M.; Schade, M.; Merla, B.; Hars, U.; Kueckelhaus, S.Q.
Deposited on : 2020-05-05
Resolution : 2.05 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

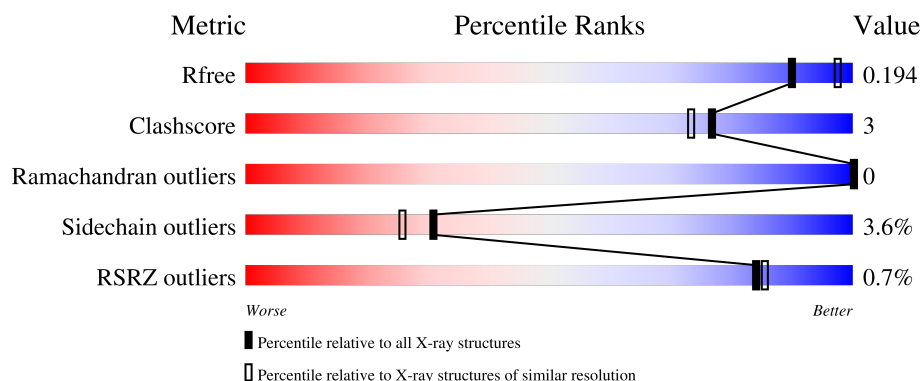
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.05 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	2260 (2.04-2.04)
Clashscore	190562	2333 (2.04-2.04)
Ramachandran outliers	187476	2318 (2.04-2.04)
Sidechain outliers	187428	2318 (2.04-2.04)
RSRZ outliers	180081	2260 (2.04-2.04)

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	AAA	225	% 89% 8% .
1	BBB	225	 89% 8% ..

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
2	ACT	BBB	1005	-	-	X	-

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 3993 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 Cathepsin S.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	AAA	220	Total	C	N	O	S	0	0	0
			1714	1082	293	327	12			
1	BBB	222	Total	C	N	O	S	0	4	0
			1761	1113	305	331	12			

There are 12 discrepancies between the modelled and reference sequences:

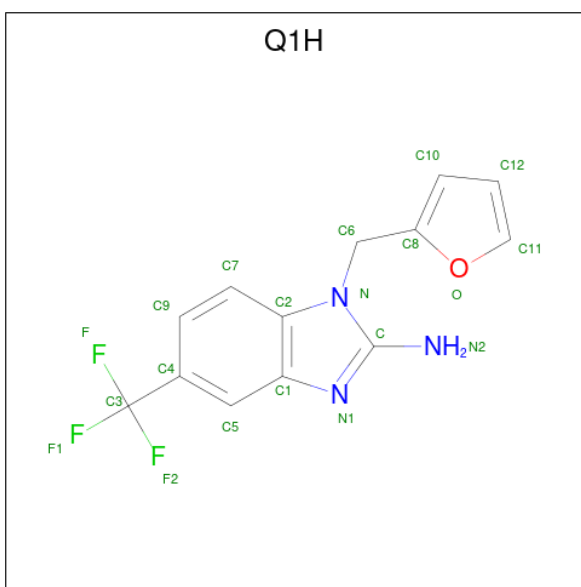
Chain	Residue	Modelled	Actual	Comment	Reference
AAA	218	HIS	-	expression tag	UNP P25774
AAA	219	HIS	-	expression tag	UNP P25774
AAA	220	HIS	-	expression tag	UNP P25774
AAA	221	HIS	-	expression tag	UNP P25774
AAA	222	HIS	-	expression tag	UNP P25774
AAA	223	HIS	-	expression tag	UNP P25774
BBB	218	HIS	-	expression tag	UNP P25774
BBB	219	HIS	-	expression tag	UNP P25774
BBB	220	HIS	-	expression tag	UNP P25774
BBB	221	HIS	-	expression tag	UNP P25774
BBB	222	HIS	-	expression tag	UNP P25774
BBB	223	HIS	-	expression tag	UNP P25774

- Molecule 2 is ACETATE ION (CCD ID: ACT) (formula: C₂H₃O₂).



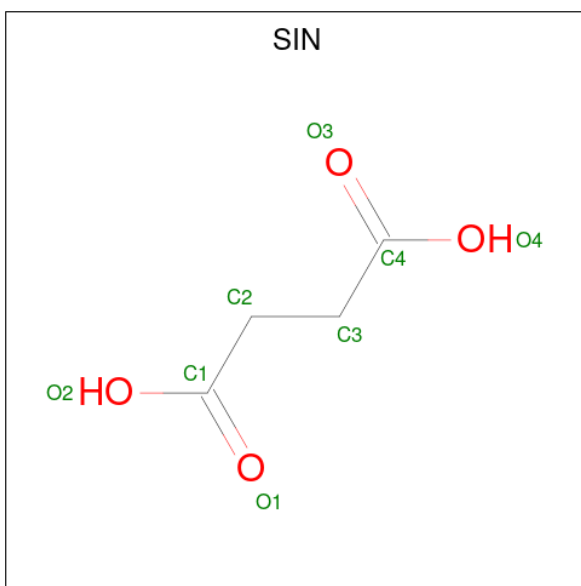
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	AAA	1	Total	C	O	0	0
			4	2	2		
2	AAA	1	Total	C	O	0	0
			4	2	2		
2	BBB	1	Total	C	O	0	0
			4	2	2		
2	BBB	1	Total	C	O	0	0
			4	2	2		
2	BBB	1	Total	C	O	0	0
			4	2	2		

- Molecule 3 is 1-(furan-2-ylmethyl)-5-(trifluoromethyl)benzimidazol-2-amine (CCD ID: Q1H) (formula: C₁₃H₁₀F₃N₃O) (labeled as "Ligand of Interest" by depositor).



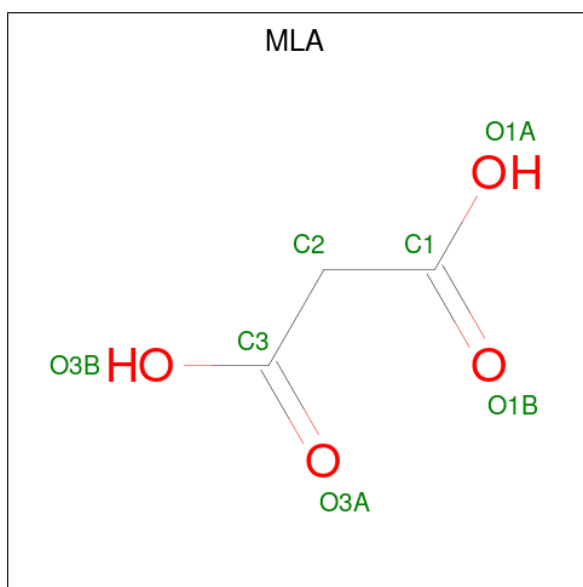
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	AAA	1	Total	C	F	N	O	0	0
			20	13	3	3	1		

- Molecule 4 is SUCCINIC ACID (CCD ID: SIN) (formula: $C_4H_6O_4$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	BBB	1	Total	C	O	0	1
			16	8	8		

- Molecule 5 is MALONIC ACID (CCD ID: MLA) (formula: $C_3H_4O_4$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	BBB	1	Total	C	O	0	0
			7	3	4		
5	BBB	1	Total	C	O	0	0
			7	3	4		

- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	AAA	203	Total	O	0	0
			203	203		
6	BBB	241	Total	O	0	0
			241	241		

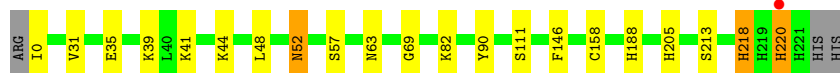
3 Residue-property plots [i](#)

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: Cathepsin S



- Molecule 1: Cathepsin S



4 Data and refinement statistics

Property	Value	Source
Space group	H 3 2	Depositor
Cell constants a, b, c, α , β , γ	118.69Å 118.69Å 205.59Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	29.69 – 2.05 29.69 – 2.05	Depositor EDS
% Data completeness (in resolution range)	98.1 (29.69-2.05) 98.1 (29.69-2.05)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.10 (at 2.04Å)	Xtriage
Refinement program	REFMAC 5.8.0258	Depositor
R, R_{free}	0.141 , 0.188 0.152 , 0.194	Depositor DCC
R_{free} test set	1708 reflections (4.84%)	wwPDB-VP
Wilson B-factor (Å ²)	29.2	Xtriage
Anisotropy	0.218	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.39 , 42.1	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	3993	wwPDB-VP
Average B, all atoms (Å ²)	34.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.96% 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: SIN, CSO, MLA, Q1H, ACT

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	AAA	1.11	3/1750 (0.2%)	1.31	2/2365 (0.1%)
1	BBB	1.14	2/1812 (0.1%)	1.25	2/2447 (0.1%)
All	All	1.13	5/3562 (0.1%)	1.28	4/4812 (0.1%)

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AAA	163	ASN	C-O	-7.41	1.15	1.23
1	BBB	213	SER	C-O	7.03	1.32	1.23
1	AAA	106	ARG	C-O	-6.23	1.16	1.23
1	AAA	188	HIS	CE1-NE2	5.39	1.38	1.32
1	BBB	205	HIS	CE1-NE2	5.30	1.37	1.32

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AAA	218	HIS	CB-CA-C	8.88	123.10	109.34
1	AAA	218	HIS	CA-CB-CG	5.54	119.34	113.80
1	BBB	52	ASN	CA-CB-CG	5.39	118.00	112.60
1	BBB	220	HIS	CA-CB-CG	-5.16	108.64	113.80

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	AAA	1714	0	1632	8	0
1	BBB	1761	0	1685	9	0
2	AAA	8	0	6	0	0
2	BBB	16	0	12	3	0
3	AAA	20	0	0	0	0
4	BBB	16	0	8	1	0
5	BBB	14	0	4	3	0
6	AAA	203	0	0	2	0
6	BBB	241	0	0	4	2
All	All	3993	0	3347	20	2

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 3.

The worst 5 of 20 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:BBB:1003:MLA:O1A	6:BBB:1101:HOH:O	1.65	1.13
4:BBB:1001[A]:SIN:O4	2:BBB:1005:ACT:O	1.84	0.95
1:AAA:160:GLN:NE2	1:AAA:204:ASN:HD22	1.84	0.75
5:BBB:1002:MLA:O3A	6:BBB:1102:HOH:O	2.18	0.57
1:AAA:197:ARG:NH2	6:AAA:403:HOH:O	2.26	0.56

All (2) 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)
6:BBB:1186:HOH:O	6:BBB:1252:HOH:O[2_555]	1.86	0.34
6:BBB:1177:HOH:O	6:BBB:1244:HOH:O[6_555]	2.04	0.16

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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	AAA	217/225 (96%)	214 (99%)	3 (1%)	0	100	100
1	BBB	223/225 (99%)	218 (98%)	5 (2%)	0	100	100
All	All	440/450 (98%)	432 (98%)	8 (2%)	0	100	100

There are no Ramachandran outliers to report.

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	AAA	180/185 (97%)	174 (97%)	6 (3%)	33	28
1	BBB	186/185 (100%)	178 (96%)	8 (4%)	26	20
All	All	366/370 (99%)	352 (96%)	14 (4%)	31	24

5 of 14 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	BBB	44	LYS
1	BBB	52	ASN
1	BBB	218	HIS
1	BBB	90	TYR
1	BBB	158	CYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

2 non-standard protein/DNA/RNA residues 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	$\# Z > 2$
1	CSO	AAA	25	1	3,6,7	1.17	0	1,6,8	0.79	0
1	CSO	BBB	25	1	3,6,7	0.70	0	1,6,8	0.84	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
1	CSO	AAA	25	1	-	0/1/5/7	-
1	CSO	BBB	25	1	-	0/1/5/7	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

11 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
2	ACT	BBB	1006	-	3,3,3	1.58	1 (33%)	3,3,3	1.02	0
4	SIN	BBB	1001[B]	-	7,7,7	1.24	0	8,8,8	1.09	0
2	ACT	BBB	1005	-	3,3,3	0.92	0	3,3,3	0.86	0
3	Q1H	AAA	303	-	22,22,22	2.17	6 (27%)	29,33,33	1.40	2 (6%)
5	MLA	BBB	1002	-	6,6,6	1.74	2 (33%)	7,7,7	1.13	0
4	SIN	BBB	1001[A]	-	7,7,7	1.15	0	8,8,8	1.07	0
5	MLA	BBB	1003	-	6,6,6	1.33	1 (16%)	7,7,7	1.06	0
2	ACT	BBB	1007	-	3,3,3	1.27	0	3,3,3	0.91	0
2	ACT	BBB	1004	-	3,3,3	1.32	0	3,3,3	0.63	0
2	ACT	AAA	301	-	3,3,3	1.33	0	3,3,3	0.58	0
2	ACT	AAA	302	-	3,3,3	1.54	1 (33%)	3,3,3	0.70	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
4	SIN	BBB	1001[B]	-	-	2/5/5/5	-
5	MLA	BBB	1002	-	-	0/4/4/4	-
5	MLA	BBB	1003	-	-	2/4/4/4	-
3	Q1H	AAA	303	-	-	0/10/10/10	0/3/3/3
4	SIN	BBB	1001[A]	-	-	1/5/5/5	-

The worst 5 of 11 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	AAA	303	Q1H	O-C8	-4.68	1.23	1.36
3	AAA	303	Q1H	O-C11	-4.30	1.24	1.37
3	AAA	303	Q1H	C-N1	4.29	1.37	1.32
3	AAA	303	Q1H	C-N2	3.85	1.40	1.34
5	BBB	1002	MLA	O1A-C1	-2.27	1.23	1.30

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	AAA	303	Q1H	C12-C10-C8	-2.38	102.27	107.05
3	AAA	303	Q1H	C6-C8-C10	-2.38	124.04	132.64

There are no chirality outliers.

All (5) torsion outliers are listed below:

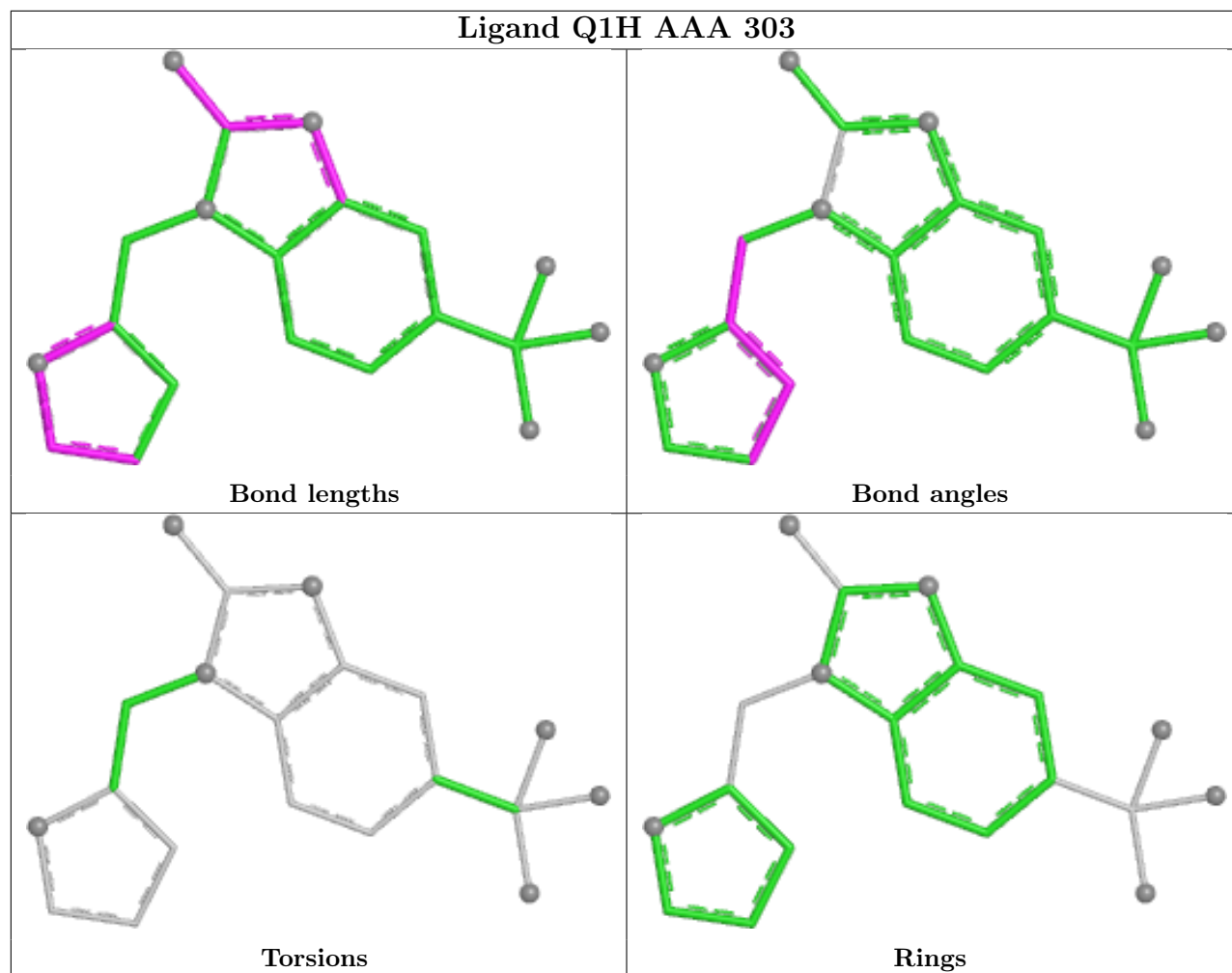
Mol	Chain	Res	Type	Atoms
4	BBB	1001[A]	SIN	C1-C2-C3-C4
5	BBB	1003	MLA	O1A-C1-C2-C3
5	BBB	1003	MLA	O1B-C1-C2-C3
4	BBB	1001[B]	SIN	O2-C1-C2-C3
4	BBB	1001[B]	SIN	O1-C1-C2-C3

There are no ring outliers.

5 monomers are involved in 6 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	BBB	1006	ACT	1	0
2	BBB	1005	ACT	2	0
5	BBB	1002	MLA	1	0
4	BBB	1001[A]	SIN	1	0
5	BBB	1003	MLA	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.



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	AAA	219/225 (97%)	-0.49	2 (0%) 81 83	22, 32, 51, 92	0
1	BBB	221/225 (98%)	-0.57	1 (0%) 87 89	19, 29, 47, 67	4 (1%)
All	All	440/450 (97%)	-0.53	3 (0%) 84 85	19, 30, 50, 92	4 (0%)

All (3) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	AAA	0	ILE	2.6
1	BBB	220	HIS	2.3
1	AAA	218	HIS	2.2

6.2 Non-standard residues in protein, DNA, RNA chains [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
1	CSO	AAA	25	7/8	0.98	0.05	23,27,32,36	0
1	CSO	BBB	25	7/8	0.98	0.06	22,23,32,39	0

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands

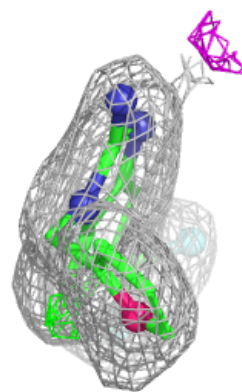
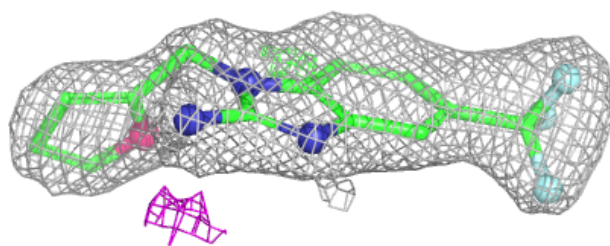
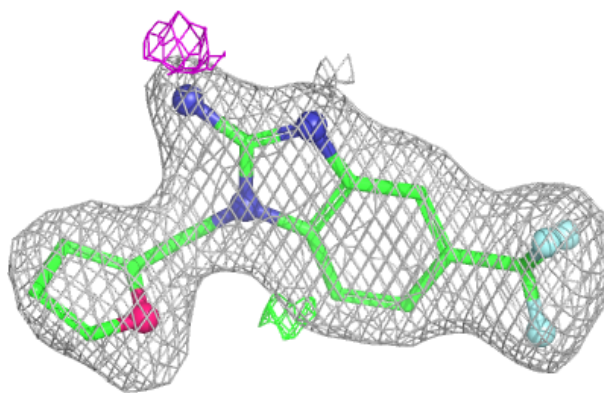
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists 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
2	ACT	BBB	1006	4/4	0.76	0.19	55,58,64,64	0
2	ACT	BBB	1007	4/4	0.85	0.14	56,61,65,65	0
2	ACT	AAA	302	4/4	0.86	0.14	57,58,58,62	0
2	ACT	BBB	1004	4/4	0.89	0.12	42,48,49,49	0
2	ACT	BBB	1005	4/4	0.92	0.11	61,62,65,66	0
5	MLA	BBB	1003	7/7	0.92	0.13	49,50,54,55	7
5	MLA	BBB	1002	7/7	0.93	0.09	34,38,42,43	7
2	ACT	AAA	301	4/4	0.93	0.10	44,46,47,49	0
4	SIN	BBB	1001[A]	8/8	0.94	0.11	45,51,57,62	8
4	SIN	BBB	1001[B]	8/8	0.94	0.11	39,43,49,50	8
3	Q1H	AAA	303	20/20	0.95	0.08	38,44,58,59	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 Q1H AAA 303:

$2mF_o-DF_c$ (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.