



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 7, 2026 – 04:07 AM UTC

PDB ID : 9IOW / pdb_00009iow
Title : Crystal Structure of SME-1 E166A Mutant in complex with Cefaclor
Authors : Dhankhar, K.; Hazra, S.
Deposited on : 2024-07-09
Resolution : 2.40 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 ⓘ 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

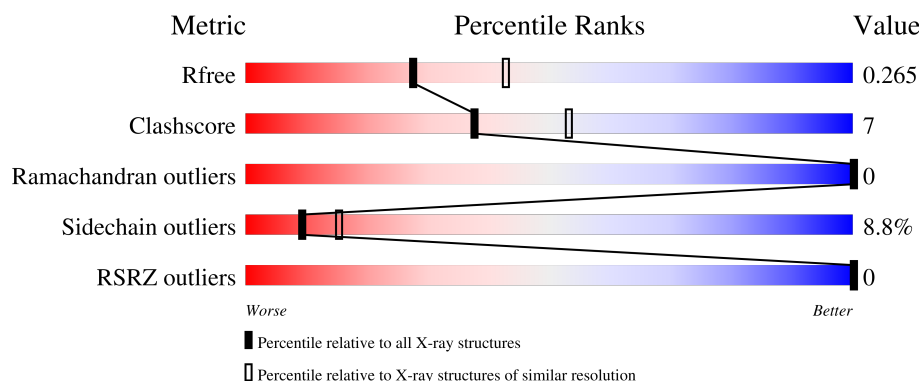
1 Overall quality at a glance

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	275	

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	Q6R	A	301	X	-	-	-

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 2126 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.

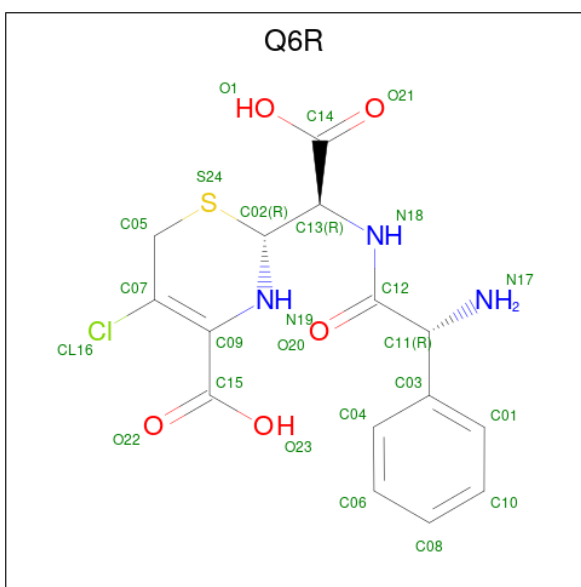
- Molecule 1 is a protein called beta-lactamase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	267	Total	C	N	O	S	0	0	0
			2057	1288	365	397	7			

There are 9 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-1	MET	-	initiating methionine	UNP Q54488
A	0	GLY	-	expression tag	UNP Q54488
A	143	ALA	GLU	engineered mutation	UNP Q54488
A	268	HIS	-	expression tag	UNP Q54488
A	269	HIS	-	expression tag	UNP Q54488
A	270	HIS	-	expression tag	UNP Q54488
A	271	HIS	-	expression tag	UNP Q54488
A	272	HIS	-	expression tag	UNP Q54488
A	273	HIS	-	expression tag	UNP Q54488

- Molecule 2 is (R)-2-((R)-((R)-2-amino-2-phenylacetamido)(carboxy)methyl)-5-chloro-3,6-dihydro-2H-1,3-thiazine-4-carboxylic acid (CCD ID: Q6R) (formula: C₁₅H₁₆ClN₃O₅S) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
2	A	1	Total	C	Cl	N	O	S	0	0
			24	15	1	3	4	1		

- Molecule 3 is CHLORIDE ION (CCD ID: CL) (formula: Cl) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	2	Total	Cl	0	0
			2	2		

- Molecule 4 is water.

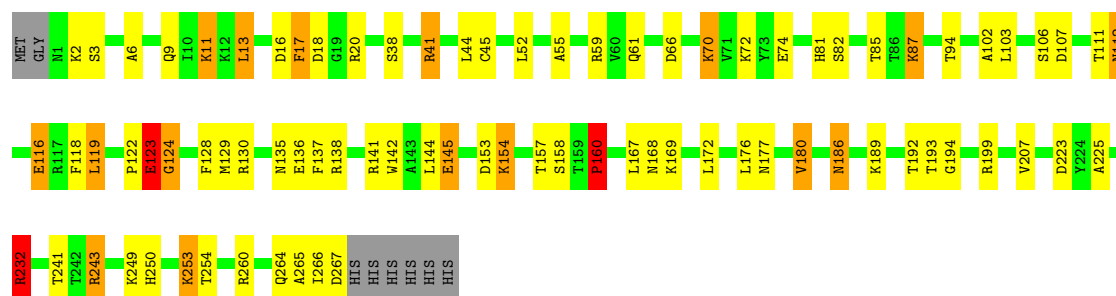
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	43	Total	O	0	0
			43	43		

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: beta-lactamase

Chain A: 



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	35.30Å 50.79Å 61.91Å 90.00° 98.63° 90.00°	Depositor
Resolution (Å)	21.48 – 2.40 21.48 – 2.40	Depositor EDS
% Data completeness (in resolution range)	96.7 (21.48-2.40) 96.7 (21.48-2.40)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.63 (at 2.41Å)	Xtriage
Refinement program	REFMAC 5.8.0425	Depositor
R, R_{free}	0.151 , 0.262 0.151 , 0.265	Depositor DCC
R_{free} test set	389 reflections (4.53%)	wwPDB-VP
Wilson B-factor (Å ²)	19.5	Xtriage
Anisotropy	0.562	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.44 , 51.1	EDS
L-test for twinning ²	$\langle L \rangle = 0.44$, $\langle L^2 \rangle = 0.27$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	2126	wwPDB-VP
Average B, all atoms (Å ²)	22.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 9.63% 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: CL, Q6R

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	0.93	2/2092 (0.1%)	1.78	48/2820 (1.7%)

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	5

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	194	GLY	C-O	-5.57	1.20	1.24
1	A	59	ARG	NE-CZ	5.52	1.39	1.33

All (48) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	123	GLU	CB-CG-CD	8.96	127.82	112.60
1	A	61	GLN	CB-CA-C	8.85	126.99	110.63
1	A	118	PHE	N-CA-CB	-8.67	99.06	110.59
1	A	253	LYS	N-CA-CB	-8.27	97.93	110.16
1	A	154	LYS	CB-CG-CD	8.21	130.19	111.30
1	A	18	ASP	CB-CA-C	-8.10	101.01	111.86
1	A	232	ARG	CG-CD-NE	-7.81	94.81	112.00
1	A	107	ASP	CA-CB-CG	7.73	120.33	112.60
1	A	153	ASP	CA-CB-CG	7.56	120.16	112.60
1	A	145	GLU	CB-CA-C	7.47	126.09	110.32
1	A	66	ASP	CA-CB-CG	7.02	119.62	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	160	PRO	N-CA-CB	-6.71	96.14	103.39
1	A	61	GLN	N-CA-CB	-6.51	100.19	110.22
1	A	254	THR	CA-CB-OG1	-6.31	100.13	109.60
1	A	193	THR	OG1-CB-CG2	6.29	121.88	109.30
1	A	223	ASP	CA-CB-CG	6.27	118.87	112.60
1	A	154	LYS	N-CA-CB	6.26	120.92	110.41
1	A	157	THR	CA-CB-OG1	-6.19	100.32	109.60
1	A	154	LYS	CD-CE-NZ	6.18	131.69	111.90
1	A	193	THR	CA-CB-OG1	-6.15	100.38	109.60
1	A	17	PHE	CA-CB-CG	6.13	119.93	113.80
1	A	18	ASP	CA-C-N	-6.11	115.52	122.42
1	A	18	ASP	C-N-CA	-6.11	115.52	122.42
1	A	116	GLU	N-CA-CB	5.95	119.50	110.28
1	A	232	ARG	CB-CA-C	-5.83	99.48	110.16
1	A	111	THR	OG1-CB-CG2	-5.77	97.76	109.30
1	A	135	ASN	CA-CB-CG	-5.73	106.87	112.60
1	A	52	LEU	N-CA-CB	-5.68	101.48	109.94
1	A	94	THR	CA-CB-OG1	-5.66	101.11	109.60
1	A	102	ALA	N-CA-C	-5.63	105.22	111.36
1	A	177	ASN	CA-CB-CG	-5.58	107.02	112.60
1	A	124	GLY	CA-C-N	5.52	127.68	120.28
1	A	124	GLY	C-N-CA	5.52	127.68	120.28
1	A	59	ARG	N-CA-CB	5.43	118.19	110.16
1	A	167	LEU	N-CA-C	-5.39	105.57	111.82
1	A	144	LEU	N-CA-CB	5.38	118.54	110.19
1	A	41	ARG	CG-CD-NE	-5.36	100.21	112.00
1	A	87	LYS	CG-CD-CE	5.31	123.51	111.30
1	A	136	GLU	N-CA-CB	5.29	117.84	110.07
1	A	72	LYS	CB-CG-CD	5.22	123.31	111.30
1	A	112	ASN	CA-CB-CG	-5.22	107.38	112.60
1	A	16	ASP	CA-CB-CG	5.16	117.76	112.60
1	A	11	LYS	N-CA-CB	5.13	117.58	109.94
1	A	13	LEU	N-CA-CB	-5.12	102.59	110.12
1	A	17	PHE	CB-CA-C	5.11	119.36	110.72
1	A	250	HIS	N-CA-C	-5.08	103.83	110.53
1	A	192	THR	OG1-CB-CG2	5.06	119.42	109.30
1	A	128	PHE	N-CA-CB	-5.00	102.77	110.12

There are no chirality outliers.

All (5) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	130	ARG	Sidechain
1	A	138	ARG	Sidechain
1	A	141	ARG	Sidechain
1	A	225	ALA	Peptide
1	A	232	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	2057	0	2054	29	0
2	A	24	0	0	0	0
3	A	2	0	0	0	0
4	A	43	0	0	4	0
All	All	2126	0	2054	29	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 7.

All (29) 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:A:112:ASN:O	1:A:116:GLU:HG2	1.74	0.87
1:A:41:ARG:HD2	1:A:154:LYS:HG2	1.73	0.68
1:A:41:ARG:CD	1:A:154:LYS:HG2	2.29	0.62
1:A:70:LYS:O	4:A:401:HOH:O	2.17	0.58
1:A:44:LEU:HD21	1:A:158:SER:HB2	1.90	0.53
1:A:41:ARG:HD2	1:A:154:LYS:CG	2.38	0.52
1:A:20:ARG:O	1:A:241:THR:HA	2.10	0.51
1:A:176:LEU:HB3	1:A:180:VAL:HG12	1.94	0.50
1:A:199:ARG:HG3	4:A:407:HOH:O	2.11	0.50
1:A:243:ARG:HH11	1:A:243:ARG:CG	2.26	0.49
1:A:103:LEU:C	1:A:103:LEU:HD23	2.37	0.48
1:A:81:HIS:CD2	1:A:81:HIS:O	2.67	0.47
1:A:82:SER:HB3	1:A:85:THR:OG1	2.13	0.47
1:A:38:SER:O	1:A:160:PRO:HD2	2.15	0.47
1:A:260:ARG:O	1:A:264:GLN:HG3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2:LYS:HE2	1:A:267:ASP:O	2.16	0.46
1:A:122:PRO:HD3	1:A:142:TRP:CZ2	2.50	0.46
1:A:55:ALA:HB3	1:A:119:LEU:HD21	1.99	0.44
1:A:129:MET:HG3	1:A:137:PHE:CD1	2.52	0.44
1:A:119:LEU:O	1:A:124:GLY:HA3	2.18	0.44
1:A:6:ALA:HB2	1:A:265:ALA:HB2	2.00	0.43
1:A:243:ARG:NH1	1:A:243:ARG:HG2	2.32	0.43
1:A:189:LYS:HE2	1:A:207:VAL:HG11	2.01	0.42
1:A:9:GLN:O	1:A:13:LEU:HB2	2.20	0.42
1:A:186:ASN:HD22	1:A:186:ASN:N	2.18	0.41
1:A:168:ASN:ND2	1:A:172:LEU:HB2	2.36	0.41
1:A:169:LYS:CD	4:A:437:HOH:O	2.69	0.41
1:A:123:GLU:H	1:A:123:GLU:CD	2.27	0.40
1:A:169:LYS:HD3	4:A:437:HOH:O	2.20	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	265/275 (96%)	254 (96%)	11 (4%)	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	215/223 (96%)	196 (91%)	19 (9%)	9 15

All (19) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	3	SER
1	A	11	LYS
1	A	17	PHE
1	A	45	CYS
1	A	70	LYS
1	A	74	GLU
1	A	87	LYS
1	A	106	SER
1	A	119	LEU
1	A	123	GLU
1	A	145	GLU
1	A	160	PRO
1	A	180	VAL
1	A	186	ASN
1	A	232	ARG
1	A	243	ARG
1	A	249	LYS
1	A	253	LYS
1	A	266	ILE

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

Mol	Chain	Res	Type
1	A	81	HIS
1	A	135	ASN
1	A	168	ASN
1	A	186	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 3 ligands modelled in this entry, 2 are monoatomic - leaving 1 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$
2	Q6R	A	301	1	19,25,26	1.56	2 (10%)	20,34,36	3.85	11 (55%)

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
2	Q6R	A	301	1	2/2/7/10	7/18/35/37	0/1/2/2

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	301	Q6R	O1-C14	-5.03	1.21	1.42
2	A	301	Q6R	C04-C03	2.07	1.42	1.39

All (11) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	301	Q6R	C13-C02-N19	-9.10	99.00	111.11
2	A	301	Q6R	C02-C13-N18	8.28	121.99	111.75
2	A	301	Q6R	C14-C13-N18	6.68	119.81	109.28
2	A	301	Q6R	C11-C12-N18	5.27	121.13	114.68
2	A	301	Q6R	C05-S24-C02	5.01	103.54	94.36
2	A	301	Q6R	O22-C15-C09	-2.79	115.35	120.20
2	A	301	Q6R	C03-C11-C12	2.61	117.29	111.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	301	Q6R	O1-C14-C13	-2.59	104.83	111.10
2	A	301	Q6R	C04-C03-C01	2.30	121.15	118.30
2	A	301	Q6R	O20-C12-C11	-2.28	117.89	120.96
2	A	301	Q6R	O23-C15-O22	2.10	128.91	123.90

All (2) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
2	A	301	Q6R	C13
2	A	301	Q6R	C11

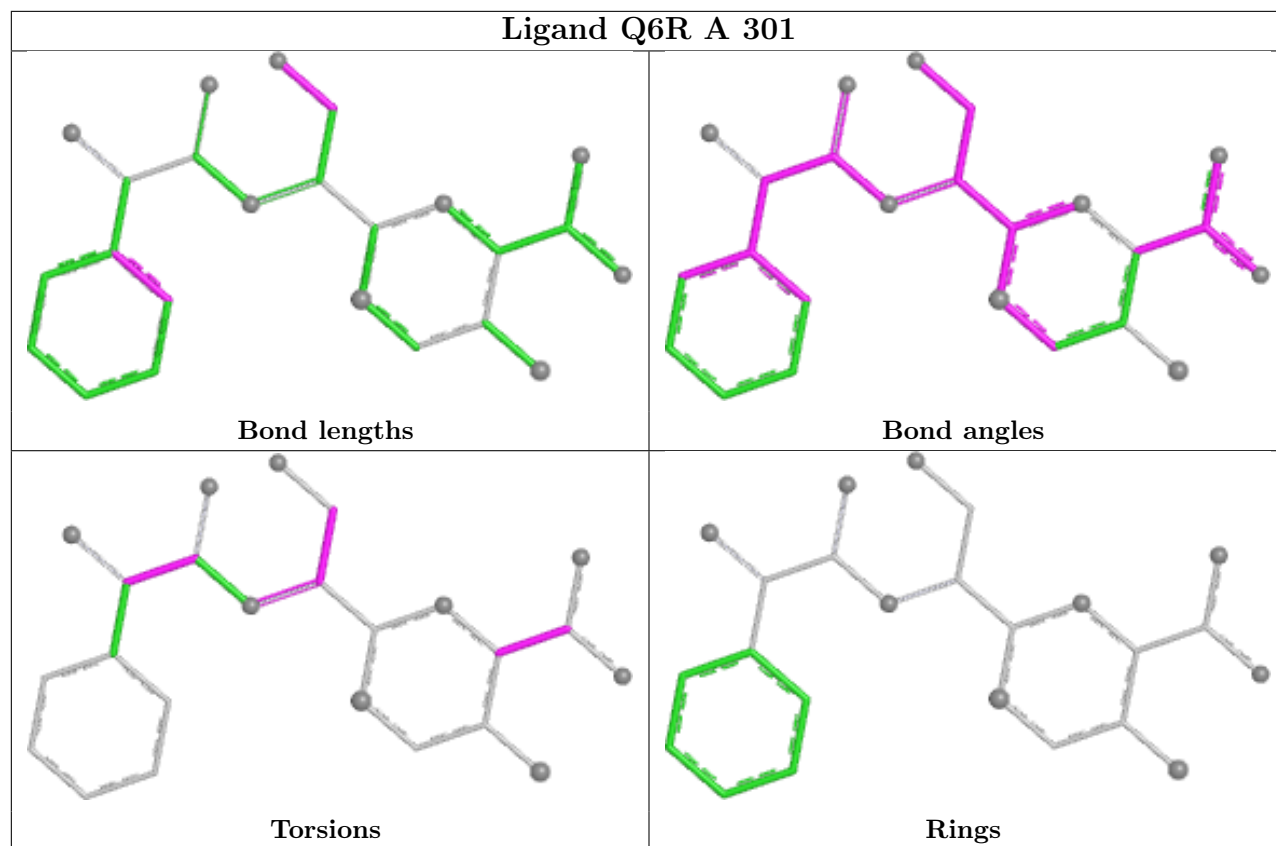
All (7) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	301	Q6R	C02-C13-C14-O1
2	A	301	Q6R	N19-C09-C15-O23
2	A	301	Q6R	C03-C11-C12-N18
2	A	301	Q6R	C03-C11-C12-O20
2	A	301	Q6R	N17-C11-C12-N18
2	A	301	Q6R	N17-C11-C12-O20
2	A	301	Q6R	C02-C13-N18-C12

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 than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.



5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data [i](#)

6.1 Protein, DNA and RNA chains [i](#)

In the following table, the column labelled ‘#RSRZ > 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q < 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	267/275 (97%)	-0.85	0 100 100	12, 20, 34, 54	0

There are no RSRZ outliers to report.

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](#)

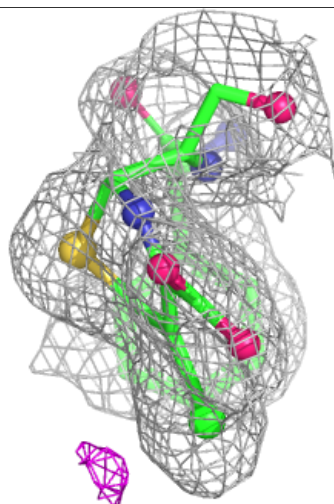
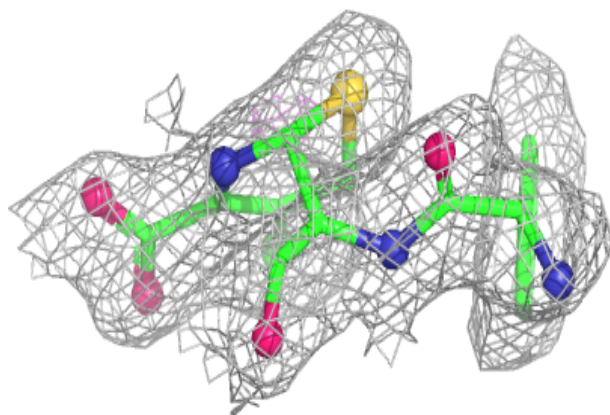
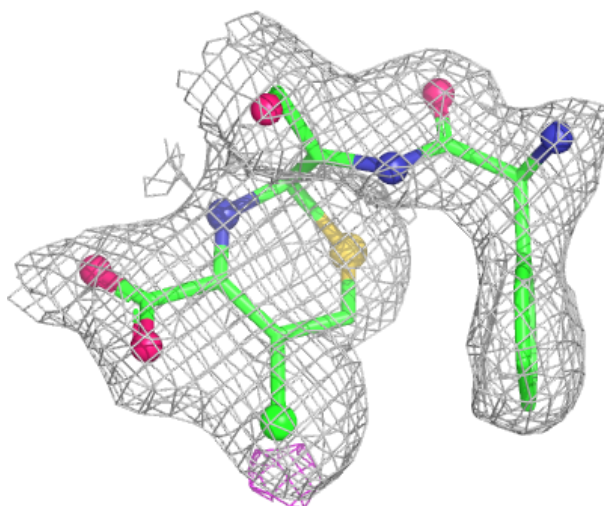
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled ‘Q < 0.9’ lists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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
2	Q6R	A	301	24/25	0.96	0.06	13,16,19,22	0
3	CL	A	303	1/1	0.97	0.07	39,39,39,39	0
3	CL	A	302	1/1	0.99	0.10	41,41,41,41	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.

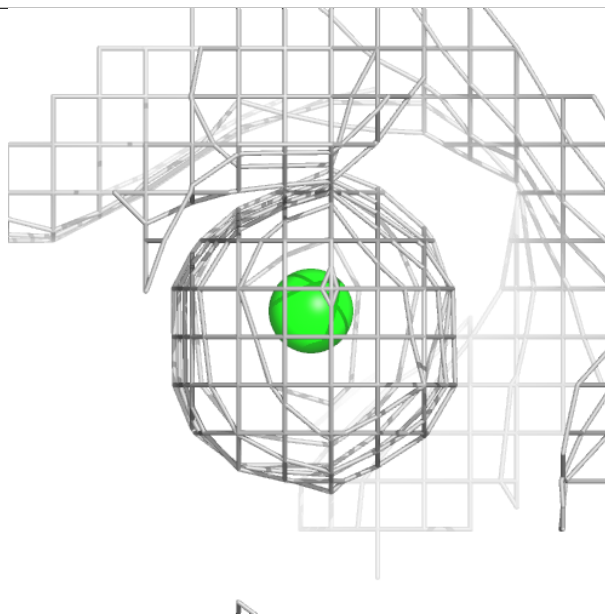
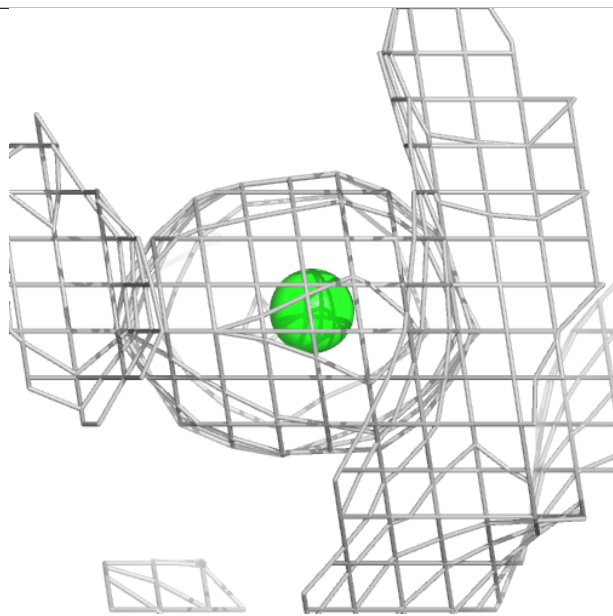
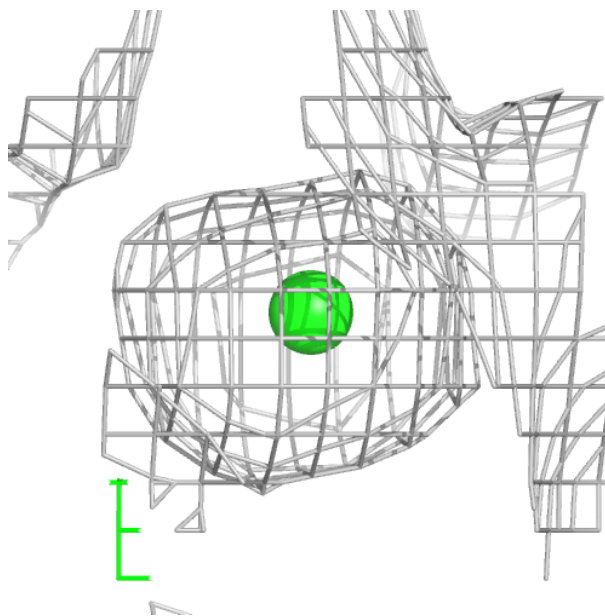
Electron density around Q6R A 301:

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



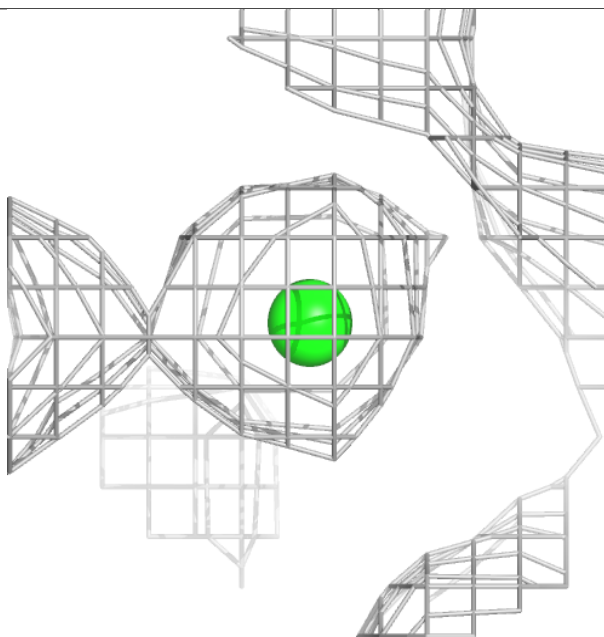
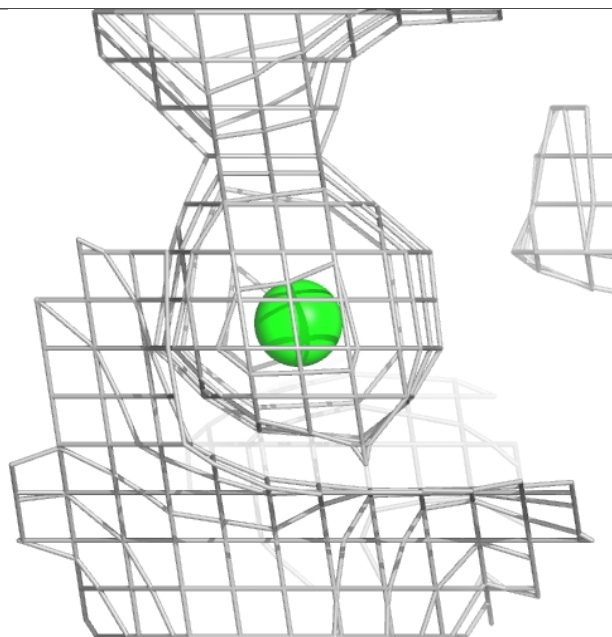
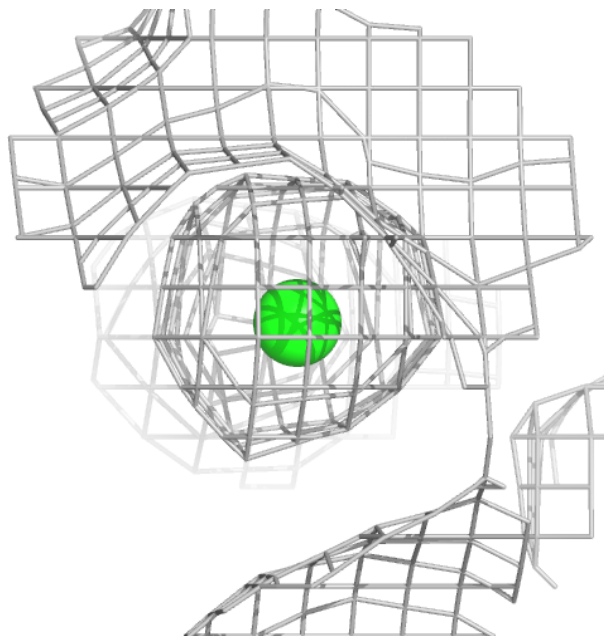
Electron density around CL A 303:

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



Electron density around CL A 302:

$2mF_o-DF_c$ (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.