



wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 6, 2026 – 01:13 PM UTC

PDB ID : 6T48 / pdb_00006t48
Title : Bovine enterovirus F3 in complex with glutathione and a Cysteinylglycine dipeptide
Authors : Duyvesteyn, H.M.E.; Ren, J.; Walter, T.S.; Fry, E.E.; Stuart, D.I.
Deposited on : 2019-10-12
Resolution : 2.17 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

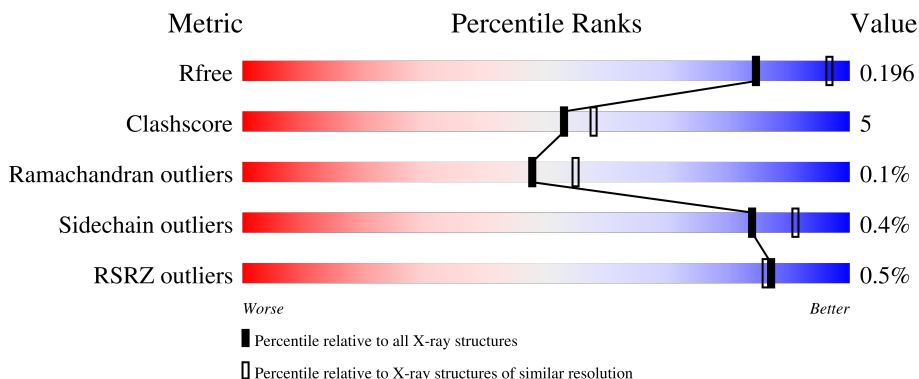
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.17 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	8975 (2.20-2.16)
Clashscore	190562	9786 (2.20-2.16)
Ramachandran outliers	187476	9664 (2.20-2.16)
Sidechain outliers	187428	9664 (2.20-2.16)
RSRZ outliers	180081	8979 (2.20-2.16)

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	87% 11% .
2	B	244	89% 11%
3	C	243	86% 14% .
4	D	71	4% 54% 14% 32%

2 Entry composition

There are 13 unique types of molecules in this entry. The entry contains 6992 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 VP1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	271	Total	C	N	O	S	0	0	0
			2102	1320	361	411	10			

- Molecule 2 is a protein called VP2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	244	Total	C	N	O	S	0	0	0
			1892	1208	323	356	5			

- Molecule 3 is a protein called VP3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	C	243	Total	C	N	O	S	0	0	0
			1911	1232	310	357	12			

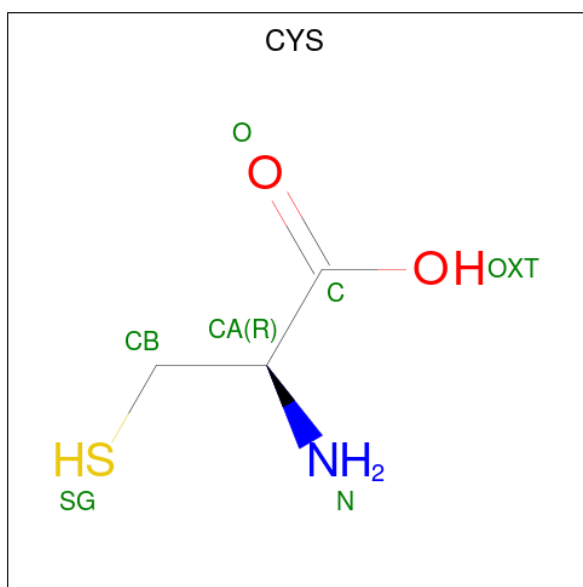
There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C	102	PHE	LEU	conflict	UNP Q2LKZ0
C	103	THR	HIS	conflict	UNP Q2LKZ0
C	143	ASN	ALA	conflict	UNP Q2LKZ0
C	192	ALA	ARG	conflict	UNP Q2LKZ0
C	211	THR	ASN	conflict	UNP Q2LKZ0
C	212	THR	HIS	conflict	UNP Q2LKZ0

- Molecule 4 is a protein called VP4.

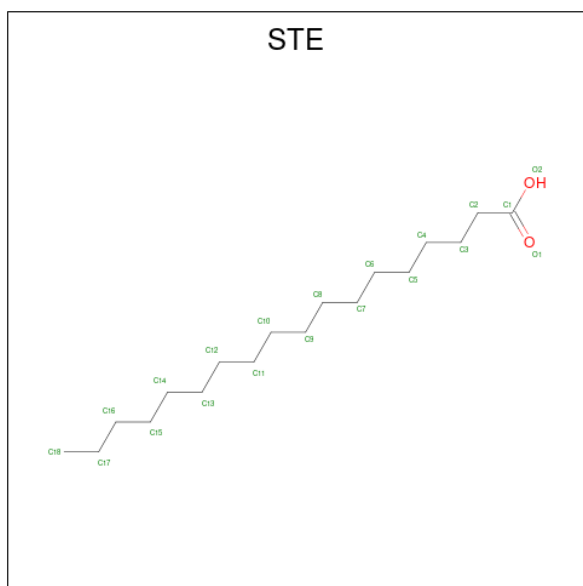
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	D	48	Total	C	N	O	S	0	0	0
			381	238	65	77	1			

- Molecule 5 is CYSTEINE (CCD ID: CYS) (formula: C₃H₇NO₂S).



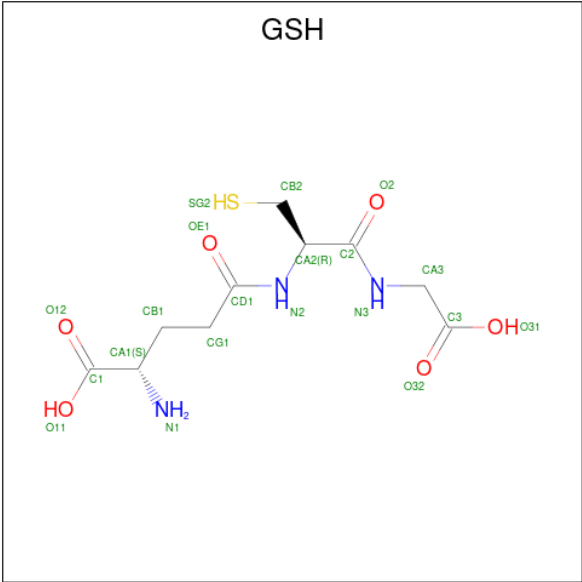
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
5	A	1	Total	C	N	O	S	0	0
			6	3	1	1	1		

- Molecule 6 is STEARIC ACID (CCD ID: STE) (formula: $C_{18}H_{36}O_2$).



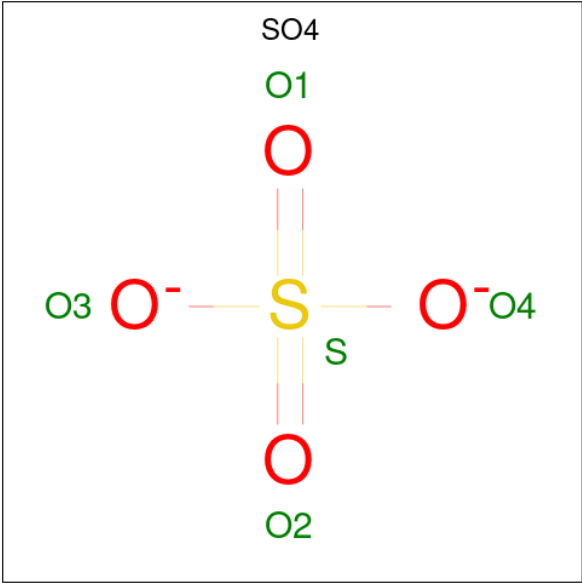
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
6	A	1	Total	C	O	0	0
			20	18	2		

- Molecule 7 is GLUTATHIONE (CCD ID: GSH) (formula: $C_{10}H_{17}N_3O_6S$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
7	A	1	Total	C	N	O	S	0	0
			20	10	3	6	1		

- Molecule 8 is SULFATE ION (CCD ID: SO4) (formula: O₄S).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
8	A	1	Total	O	S	0	0
			5	4	1		
8	A	1	Total	O	S	0	0
			5	4	1		
8	B	1	Total	O	S	0	0
			5	4	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
8	C	1	Total	O	S	0	0
			5	4	1		
8	C	1	Total	O	S	0	0
			5	4	1		

- Molecule 9 is GLYCEROL (CCD ID: GOL) (formula: $C_3H_8O_3$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
9	A	1	Total	C	O	0	0
			6	3	3		
9	A	1	Total	C	O	0	0
			6	3	3		

- Molecule 10 is POTASSIUM ION (CCD ID: K) (formula: K).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
10	A	2	Total	K	0	0
			2	2		
10	B	1	Total	K	0	0
			1	1		
10	C	1	Total	K	0	0
			1	1		

- Molecule 11 is GLYCINE (CCD ID: GLY) (formula: $C_2H_5NO_2$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
11	C	1	Total	C	N	O	0	0
			5	2	1	2		

- Molecule 12 is CHLORIDE ION (CCD ID: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
12	C	2	Total	Cl	0	0
			2	2		

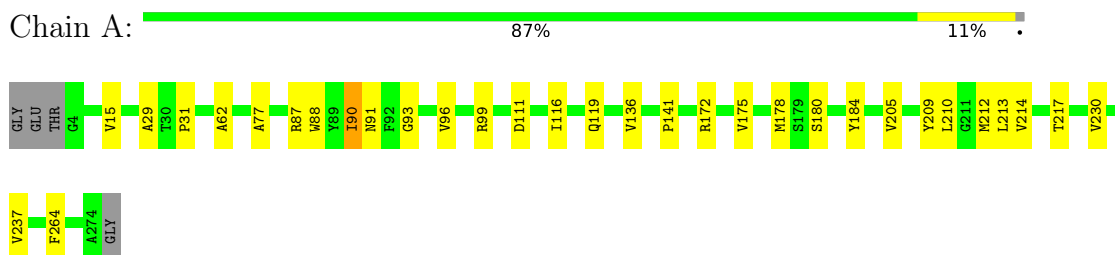
- Molecule 13 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
13	A	215	Total	O	0	0
			215	215		
13	B	196	Total	O	0	0
			196	196		
13	C	173	Total	O	0	0
			173	173		
13	D	28	Total	O	0	0
			28	28		

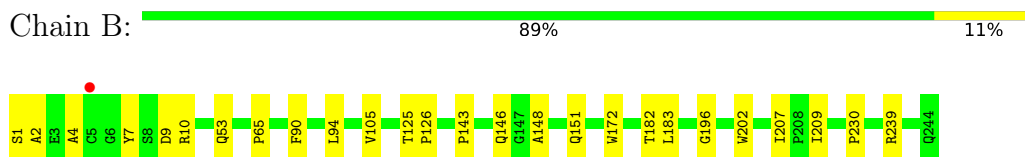
3 Residue-property plots

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.

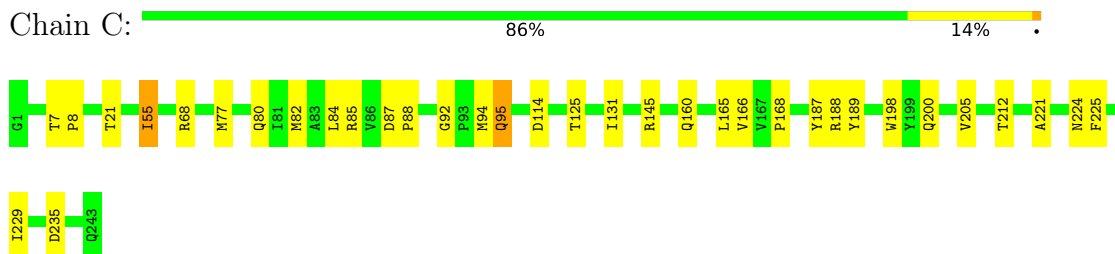
• Molecule 1: VP1



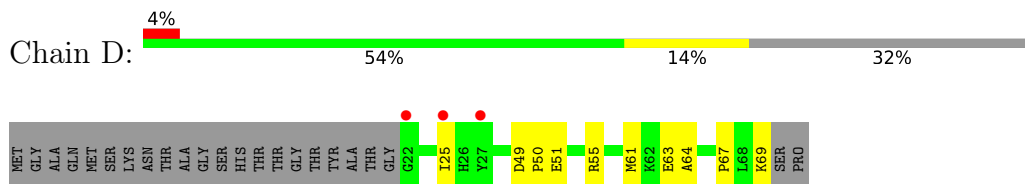
• Molecule 2: VP2



• Molecule 3: VP3



• Molecule 4: VP4



4 Data and refinement statistics

Property	Value	Source
Space group	I 2 2 2	Depositor
Cell constants a, b, c, α , β , γ	344.00Å 349.40Å 352.70Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	19.98 – 2.17 19.98 – 2.17	Depositor EDS
% Data completeness (in resolution range)	82.6 (19.98-2.17) 76.9 (19.98-2.17)	Depositor EDS
R_{merge}	0.37	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.21 (at 2.16Å)	Xtriage
Refinement program	CNS	Depositor
R, R_{free}	0.200 , 0.203 0.196 , 0.196	Depositor DCC
R_{free} test set	45615 reflections (4.13%)	wwPDB-VP
Wilson B-factor (Å ²)	13.3	Xtriage
Anisotropy	0.150	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 0.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.30$	Xtriage
Estimated twinning fraction	0.000 for -h,-l,-k 0.000 for l,-k,h 0.000 for -k,-h,-l 0.009 for k,-l,-h 0.009 for -l,h,-k	Xtriage
F_o, F_c correlation	0.40	EDS
Total number of atoms	6992	wwPDB-VP
Average B, all atoms (Å ²)	18.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.83% 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: STE, GOL, CL, K, SO4, GSH

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	0.37	0/2150	0.93	9/2928 (0.3%)
2	B	0.34	0/1947	0.89	7/2671 (0.3%)
3	C	0.38	0/1964	0.98	9/2681 (0.3%)
4	D	0.39	0/389	0.95	1/528 (0.2%)
All	All	0.37	0/6450	0.94	26/8808 (0.3%)

There are no bond length outliers.

The worst 5 of 26 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	96	VAL	N-CA-C	9.29	122.66	111.05
3	C	55	ILE	N-CA-C	8.68	119.47	110.62
1	A	217	THR	N-CA-C	-7.16	98.02	109.76
1	A	178	MET	N-CA-C	7.02	122.01	113.38
2	B	53	GLN	CA-C-N	6.92	126.62	119.56

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	2102	0	2035	21	0
2	B	1892	0	1830	16	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	C	1911	0	1876	24	0
4	D	381	0	358	9	0
5	A	6	0	4	1	0
6	A	20	0	35	3	0
7	A	20	0	15	0	0
8	A	10	0	0	0	0
8	B	5	0	0	0	0
8	C	10	0	0	0	0
9	A	12	0	16	0	0
10	A	2	0	0	0	0
10	B	1	0	0	0	0
10	C	1	0	0	0	0
11	C	5	0	2	3	0
12	C	2	0	0	0	0
13	A	215	0	0	1	0
13	B	196	0	0	1	0
13	C	173	0	0	2	0
13	D	28	0	0	0	0
All	All	6992	0	6171	63	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 5.

The worst 5 of 63 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)
3:C:145:ARG:HH11	3:C:145:ARG:HG3	1.43	0.82
4:D:49:ASP:OD1	4:D:51:GLU:HG2	1.91	0.71
1:A:212:MET:HE2	1:A:214:VAL:HB	1.78	0.66
5:A:301:CYS:HB2	3:C:235:ASP:O	2.01	0.61
1:A:212:MET:CE	1:A:214:VAL:HB	2.31	0.60

There are no symmetry-related clashes.

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	A	269/275 (98%)	257 (96%)	12 (4%)	0	100	100
2	B	242/244 (99%)	232 (96%)	10 (4%)	0	100	100
3	C	241/243 (99%)	234 (97%)	6 (2%)	1 (0%)	30	31
4	D	46/71 (65%)	44 (96%)	2 (4%)	0	100	100
All	All	798/833 (96%)	767 (96%)	30 (4%)	1 (0%)	48	55

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
3	C	229	ILE

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	A	230/232 (99%)	229 (100%)	1 (0%)	84	91
2	B	200/200 (100%)	199 (100%)	1 (0%)	81	89
3	C	211/211 (100%)	210 (100%)	1 (0%)	81	89
4	D	42/59 (71%)	42 (100%)	0	100	100
All	All	683/702 (97%)	680 (100%)	3 (0%)	84	91

All (3) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	91	ASN
2	B	9	ASP
3	C	114	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 8 such sidechains are listed below:

Mol	Chain	Res	Type
4	D	42	ASN
2	B	244	GLN
2	B	146	GLN
2	B	93	ASN
2	B	151	GLN

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](#)

Of 17 ligands modelled in this entry, 6 are monoatomic - leaving 11 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	$\# Z > 2$
5	CYS	A	301	-	4,5,6	0.65	0	1,5,7	0.69	0
9	GOL	A	307	-	5,5,5	0.14	0	5,5,5	0.30	0
7	GSH	A	303	-	18,19,19	1.04	2 (11%)	21,24,24	0.82	0
8	SO4	A	305	-	4,4,4	0.67	0	6,6,6	0.10	0
8	SO4	B	301	-	4,4,4	0.37	0	6,6,6	0.08	0
8	SO4	C	303	-	4,4,4	0.37	0	6,6,6	0.07	0
11	GLY	C	301	-	4,4,4	1.01	0	3,4,4	0.89	0
8	SO4	C	302	-	4,4,4	0.37	0	6,6,6	0.07	0
6	STE	A	302	-	19,19,19	0.97	1 (5%)	19,19,19	0.66	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
9	GOL	A	306	-	5,5,5	0.26	0	5,5,5	0.26	0
8	SO4	A	304	-	4,4,4	0.37	0	6,6,6	0.09	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
5	CYS	A	301	-	-	0/1/4/6	-
7	GSH	A	303	-	-	9/24/24/24	-
11	GLY	C	301	-	-	0/2/2/2	-
6	STE	A	302	-	-	9/17/17/17	-
9	GOL	A	306	-	-	0/4/4/4	-
9	GOL	A	307	-	-	0/4/4/4	-

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	A	302	STE	O2-C1	-3.16	1.20	1.30
7	A	303	GSH	CG1-CD1	2.31	1.56	1.51
7	A	303	GSH	O31-C3	-2.09	1.23	1.30

There are no bond angle outliers.

There are no chirality outliers.

5 of 18 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
7	A	303	GSH	O12-C1-CA1-N1
7	A	303	GSH	N2-CA2-CB2-SG2
7	A	303	GSH	C2-CA2-CB2-SG2
7	A	303	GSH	O11-C1-CA1-N1
6	A	302	STE	C3-C4-C5-C6

There are no ring outliers.

3 monomers are involved in 7 short contacts:

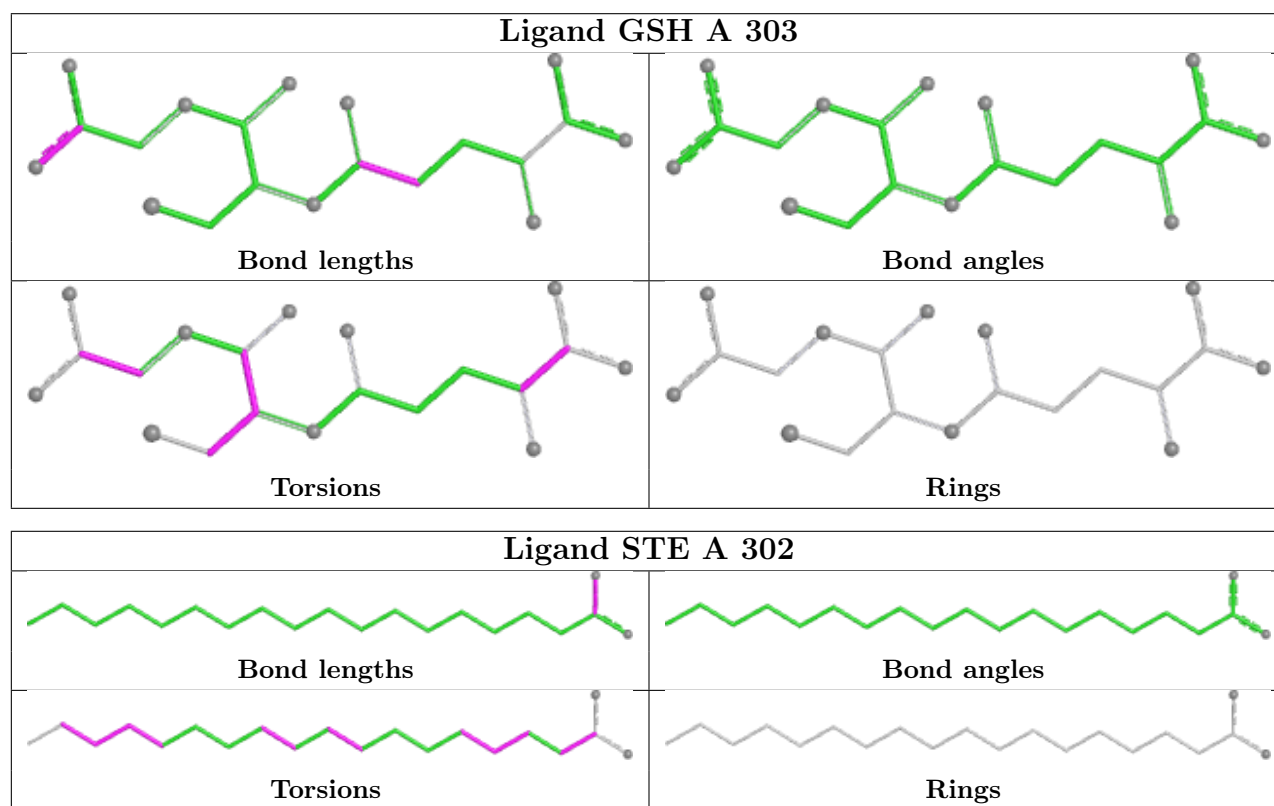
Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	A	301	CYS	1	0
11	C	301	GLY	3	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	A	302	STE	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	271/275 (98%)	-0.88	0 100 100	5, 12, 38, 99	0
2	B	244/244 (100%)	-0.92	1 (0%) 88 88	4, 10, 38, 131	0
3	C	243/243 (100%)	-0.98	0 100 100	5, 10, 30, 89	0
4	D	48/71 (67%)	-0.14	3 (6%) 26 25	9, 26, 110, 142	0
All	All	806/833 (96%)	-0.88	4 (0%) 87 86	4, 11, 44, 142	0

All (4) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
4	D	27	TYR	3.7
2	B	5	CYS	2.8
4	D	25	ILE	2.7
4	D	22	GLY	2.5

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](#)

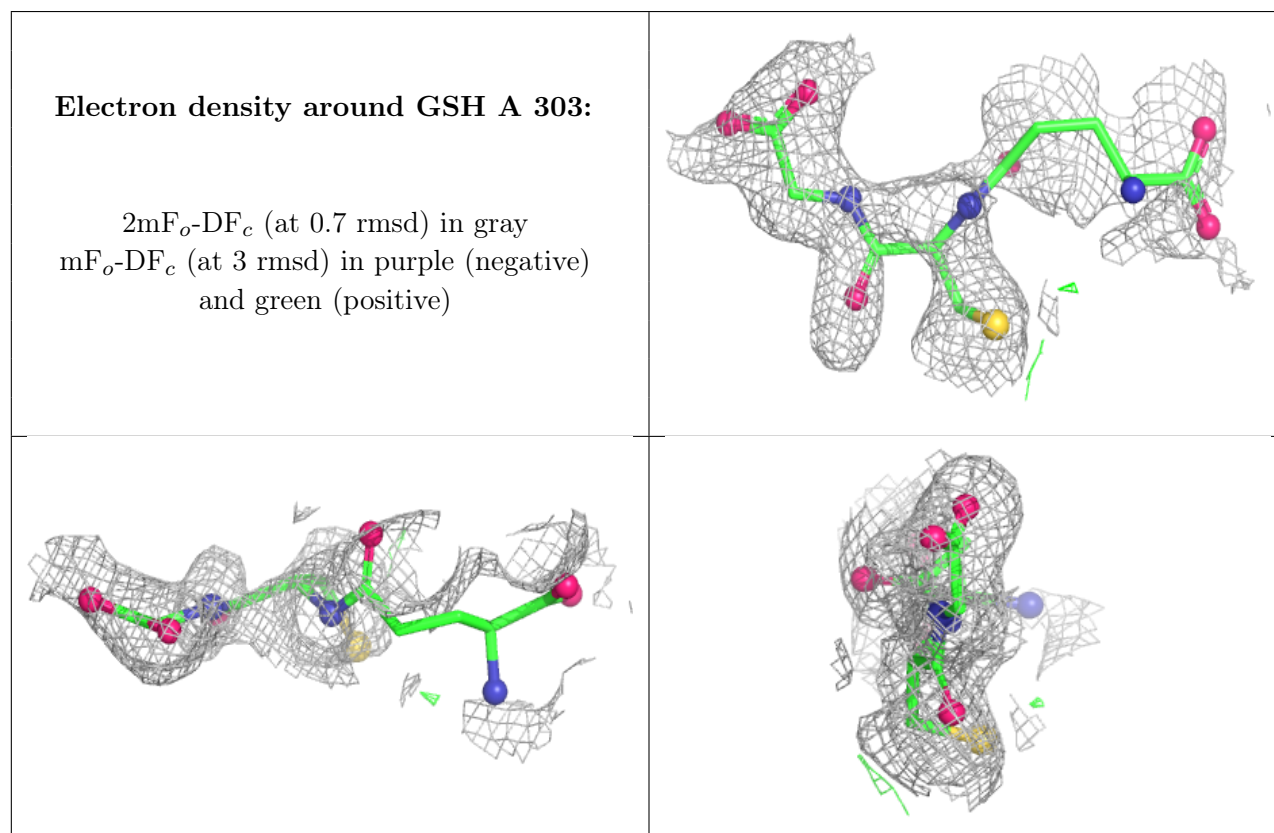
There are no oligosaccharides in this entry.

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.

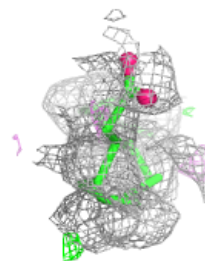
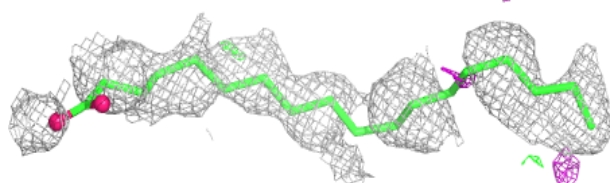
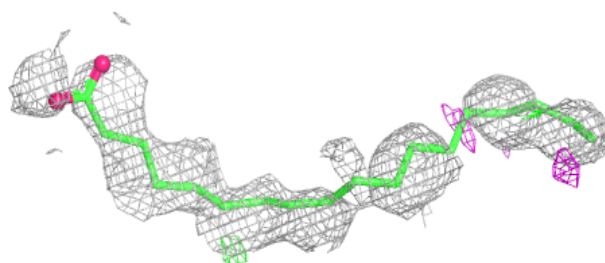
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
8	SO4	B	301	5/5	0.96	0.14	106,107,113,117	0
8	SO4	A	305	5/5	0.97	0.14	100,113,125,128	0
8	SO4	A	304	5/5	0.97	0.13	86,94,101,106	0
10	K	B	302	1/1	0.97	0.17	83,83,83,83	0
5	CYS	A	301	6/7	0.98	0.10	93,97,105,106	0
8	SO4	C	302	5/5	0.98	0.13	99,110,121,138	0
8	SO4	C	303	5/5	0.98	0.10	103,103,128,141	0
7	GSH	A	303	20/20	0.98	0.12	18,42,129,131	0
11	GLY	C	301	5/5	0.98	0.10	71,80,89,104	0
12	CL	C	305	1/1	0.98	0.08	47,47,47,47	0
12	CL	C	306	1/1	0.98	0.10	56,56,56,56	0
10	K	A	309	1/1	0.99	0.05	34,34,34,34	0
6	STE	A	302	20/20	0.99	0.08	21,28,71,78	0
10	K	C	304	1/1	0.99	0.10	50,50,50,50	0
9	GOL	A	306	6/6	0.99	0.09	58,62,89,91	0
9	GOL	A	307	6/6	0.99	0.06	16,22,26,26	0
10	K	A	308	1/1	0.99	0.05	44,44,44,44	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 STE 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.