



# wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 9, 2026 – 05:38 PM UTC

PDB ID : 6GTQ / pdb\_00006gtq  
Title : Structure of the AtaT Y144F mutant toxin bound to the C-terminus of the antitoxin AtaR  
Authors : Garcia-Pino, A.; Jurenas, D.  
Deposited on : 2018-06-18  
Resolution : 2.49 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](mailto: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>.

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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  
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

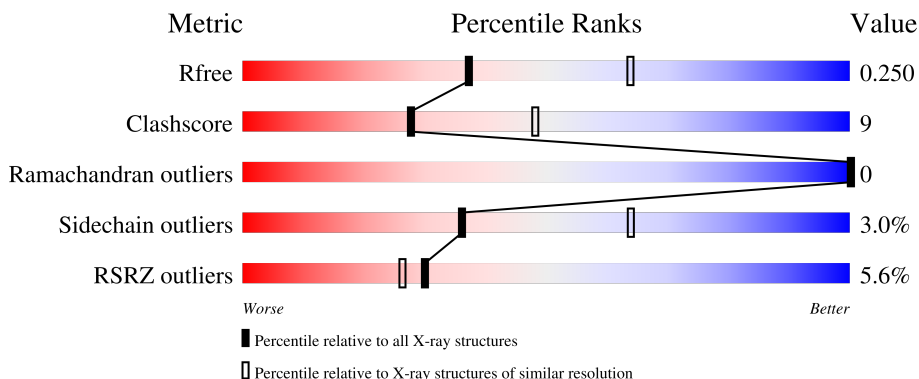
# 1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 2.49 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	5829 (2.50-2.50)
Clashscore	190562	6492 (2.50-2.50)
Ramachandran outliers	187476	6378 (2.50-2.50)
Sidechain outliers	187428	6380 (2.50-2.50)
RSRZ outliers	180081	5833 (2.50-2.50)

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  $\geq 3$ , 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	178	<div style="display: flex; align-items: center;"> <div style="width: 3%; height: 10px; background-color: red; margin-right: 5px;"></div> <div style="width: 75%; height: 10px; background-color: green; margin-right: 5px;"></div> <div style="width: 14%; height: 10px; background-color: yellow; margin-right: 5px;"></div> <div style="width: 10%; height: 10px; background-color: grey; margin-right: 5px;"></div> </div> <p style="font-size: small; margin-top: 5px;">3%      75%      14%      •      10%</p>
1	B	178	<div style="display: flex; align-items: center;"> <div style="width: 4%; height: 10px; background-color: red; margin-right: 5px;"></div> <div style="width: 73%; height: 10px; background-color: green; margin-right: 5px;"></div> <div style="width: 13%; height: 10px; background-color: yellow; margin-right: 5px;"></div> <div style="width: 11%; height: 10px; background-color: grey; margin-right: 5px;"></div> </div> <p style="font-size: small; margin-top: 5px;">4%      73%      13%      •      11%</p>
2	C	46	<div style="display: flex; align-items: center;"> <div style="width: 13%; height: 10px; background-color: red; margin-right: 5px;"></div> <div style="width: 67%; height: 10px; background-color: green; margin-right: 5px;"></div> <div style="width: 13%; height: 10px; background-color: yellow; margin-right: 5px;"></div> <div style="width: 17%; height: 10px; background-color: grey; margin-right: 5px;"></div> </div> <p style="font-size: small; margin-top: 5px;">13%      67%      13%      •      17%</p>
2	D	46	<div style="display: flex; align-items: center;"> <div style="width: 7%; height: 10px; background-color: red; margin-right: 5px;"></div> <div style="width: 63%; height: 10px; background-color: green; margin-right: 5px;"></div> <div style="width: 11%; height: 10px; background-color: yellow; margin-right: 5px;"></div> <div style="width: 7%; height: 10px; background-color: orange; margin-right: 5px;"></div> <div style="width: 20%; height: 10px; background-color: grey; margin-right: 5px;"></div> </div> <p style="font-size: small; margin-top: 5px;">7%      63%      11%      7%      20%</p>

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:

<b>Mol</b>	<b>Type</b>	<b>Chain</b>	<b>Res</b>	<b>Chirality</b>	<b>Geometry</b>	<b>Clashes</b>	<b>Electron density</b>
6	ACT	A	204	-	-	X	-
6	ACT	A	205	-	X	X	-

## 2 Entry composition [i](#)

There are 9 unique types of molecules in this entry. The entry contains 3297 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 N-acetyltransferase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	160	1223	784	209	225	5	0	1	0
1	B	158	1219	788	209	218	4	0	2	0

There are 10 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-3	MET	-	initiating methionine	UNP A0A1V3CQ74
A	-2	GLY	-	expression tag	UNP A0A1V3CQ74
A	-1	ALA	-	expression tag	UNP A0A1V3CQ74
A	0	SER	-	expression tag	UNP A0A1V3CQ74
A	143	PHE	TYR	engineered mutation	UNP A0A1V3CQ74
B	-3	MET	-	initiating methionine	UNP A0A1V3CQ74
B	-2	GLY	-	expression tag	UNP A0A1V3CQ74
B	-1	ALA	-	expression tag	UNP A0A1V3CQ74
B	0	SER	-	expression tag	UNP A0A1V3CQ74
B	143	PHE	TYR	engineered mutation	UNP A0A1V3CQ74

- Molecule 2 is a protein called DUF1778 domain-containing protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	C	38	292	180	57	53	2	0	0	0
2	D	37	284	175	55	52	2	0	0	0

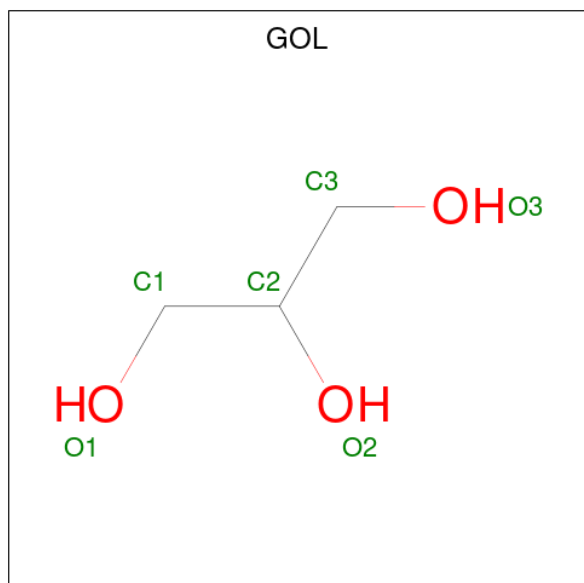
There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C	42	MET	-	initiating methionine	UNP J7QA90
D	42	MET	-	initiating methionine	UNP J7QA90

- Molecule 3 is CHLORIDE ION (CCD ID: CL) (formula: Cl).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total Cl 1 1	0	0
3	B	1	Total Cl 1 1	0	0

- Molecule 4 is GLYCEROL (CCD ID: GOL) (formula: C<sub>3</sub>H<sub>8</sub>O<sub>3</sub>).



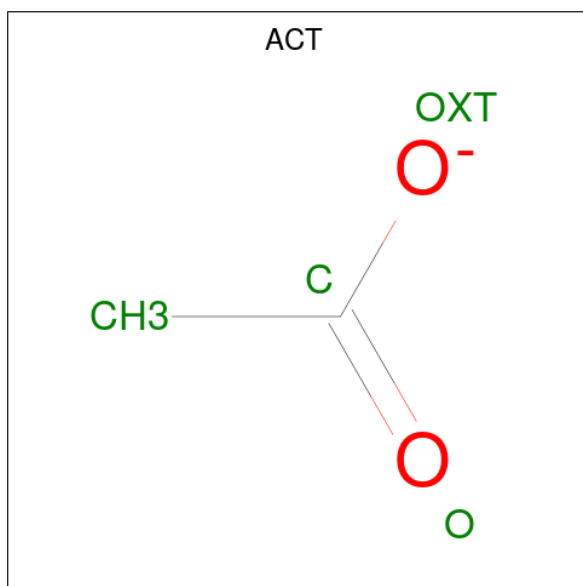
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	1	Total C O 6 3 3	0	0
4	B	1	Total C O 6 3 3	0	0
4	B	1	Total C O 6 3 3	0	0
4	B	1	Total C O 6 3 3	0	0

- Molecule 5 is PHOSPHATE ION (CCD ID: PO4) (formula: O<sub>4</sub>P).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	O	P		
5	A	1	5	4	1	0	0

- Molecule 6 is ACETATE ION (CCD ID: ACT) (formula:  $C_2H_3O_2$ ).



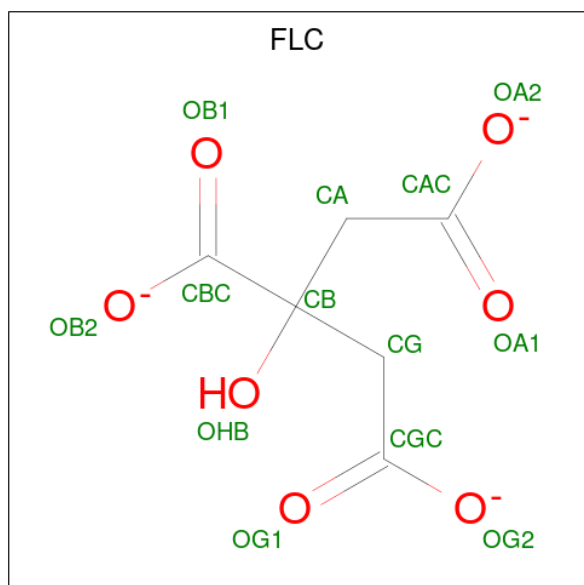
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	C	O		
6	A	1	4	2	2	0	0
6	A	1	4	2	2	0	0
6	B	1	4	2	2	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
6	B	1	Total	C	O	0	0
			4	2	2		
6	B	1	Total	C	O	0	0
			4	2	2		

- Molecule 7 is CITRATE ANION (CCD ID: FLC) (formula:  $C_6H_5O_7^-$ ).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
7	B	1	Total	C	O	0	0
			13	6	7		

- Molecule 8 is IODIDE ION (CCD ID: IOD) (formula: I).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
8	B	1	Total	I	0	0
			1	1		

- Molecule 9 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
9	A	80	Total	O	0	0
			80	80		
9	B	81	Total	O	0	0
			81	81		
9	C	27	Total	O	0	0
			27	27		

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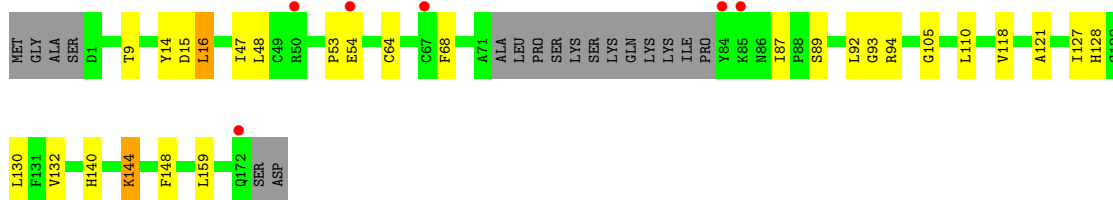
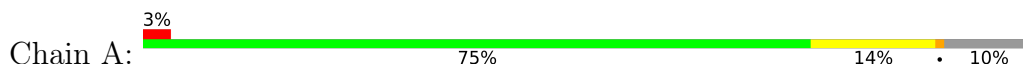
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<b>Mol</b>	<b>Chain</b>	<b>Residues</b>	<b>Atoms</b>		<b>ZeroOcc</b>	<b>AltConf</b>
9	D	26	Total	O	0	0
			26	26		

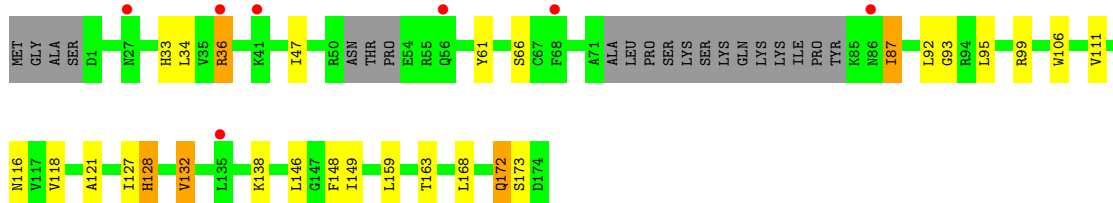
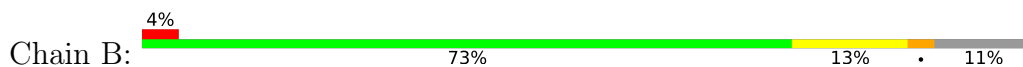
### 3 Residue-property plots [i](#)

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.

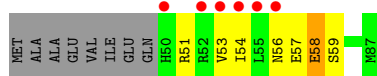
- Molecule 1: N-acetyltransferase



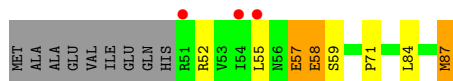
- Molecule 1: N-acetyltransferase



- Molecule 2: DUF1778 domain-containing protein



- Molecule 2: DUF1778 domain-containing protein



## 4 Data and refinement statistics i

Property	Value	Source
Space group	P 31 2 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	87.58Å 87.58Å 125.48Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	35.24 – 2.49 35.24 – 2.49	Depositor EDS
% Data completeness (in resolution range)	99.7 (35.24-2.49) 99.6 (35.24-2.49)	Depositor EDS
$R_{merge}$	0.07	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	0.99 (at 2.48Å)	Xtrriage
Refinement program	BUSTER 2.10.3	Depositor
R, $R_{free}$	0.196 , 0.236 0.213 , 0.250	Depositor DCC
$R_{free}$ test set	997 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	55.9	Xtrriage
Anisotropy	0.248	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.32 , 84.5	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.49$ , $\langle L^2 \rangle = 0.33$	Xtrriage
Estimated twinning fraction	0.032 for -h,-k,l	Xtrriage
$F_o, F_c$ correlation	0.94	EDS
Total number of atoms	3297	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	65.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.12% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

<sup>2</sup>Theoretical 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: ACT, IOD, CL, PO4, FLC, GOL

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	0.78	1/1250 (0.1%)	1.27	4/1701 (0.2%)
1	B	0.78	2/1248 (0.2%)	1.28	8/1692 (0.5%)
2	C	0.98	1/296 (0.3%)	1.51	4/397 (1.0%)
2	D	1.00	1/288 (0.3%)	1.55	2/387 (0.5%)
All	All	0.83	5/3082 (0.2%)	1.33	18/4177 (0.4%)

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	D	87	MET	SD-CE	-7.30	1.61	1.79
1	B	132	VAL	C-O	-6.03	1.18	1.24
2	C	59	SER	C-O	-5.58	1.17	1.24
1	B	87	ILE	CA-C	5.16	1.57	1.52
1	A	87	ILE	CA-CB	5.07	1.58	1.54

The worst 5 of 18 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	D	58	GLU	N-CA-C	-9.98	100.25	114.12
2	C	56	ASN	N-CA-C	7.23	120.32	110.55
1	A	9	THR	CA-C-N	5.73	128.23	120.38
1	A	9	THR	C-N-CA	5.73	128.23	120.38
1	B	87	ILE	N-CA-C	5.65	114.05	107.89

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	1223	0	1182	24	0
1	B	1219	0	1195	22	0
2	C	292	0	294	5	0
2	D	284	0	283	8	0
3	A	1	0	0	1	0
3	B	1	0	0	1	0
4	A	6	0	8	0	0
4	B	18	0	24	3	0
5	A	5	0	0	0	0
6	A	8	0	6	5	0
6	B	12	0	9	1	0
7	B	13	0	5	2	0
8	B	1	0	0	0	0
9	A	80	0	0	1	0
9	B	81	0	0	0	0
9	C	27	0	0	0	0
9	D	26	0	0	1	0
All	All	3297	0	3006	55	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 9.

The worst 5 of 55 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)
2:D:57:GLU:N	2:D:57:GLU:OE1	1.78	1.16
1:A:14:TYR:HB3	1:A:16:LEU:HD11	1.52	0.90
6:A:205:ACT:H3	1:B:121:ALA:HA	1.53	0.89
1:A:53:PRO:HD2	1:A:54:GLU:OE1	1.84	0.78
1:B:163:THR:HB	4:B:202:GOL:H11	1.69	0.75

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	157/178 (88%)	154 (98%)	3 (2%)	0	100	100
1	B	154/178 (86%)	148 (96%)	6 (4%)	0	100	100
2	C	36/46 (78%)	33 (92%)	3 (8%)	0	100	100
2	D	35/46 (76%)	34 (97%)	1 (3%)	0	100	100
All	All	382/448 (85%)	369 (97%)	13 (3%)	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	125/151 (83%)	122 (98%)	3 (2%)	43	70
1	B	123/151 (82%)	119 (97%)	4 (3%)	33	61
2	C	30/39 (77%)	29 (97%)	1 (3%)	33	61
2	D	29/39 (74%)	27 (93%)	2 (7%)	14	30
All	All	307/380 (81%)	297 (97%)	10 (3%)	36	61

5 of 10 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	C	58	GLU
2	D	57	GLU
2	D	58	GLU

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Mol	Chain	Res	Type
1	B	36[A]	ARG
1	B	36[B]	ARG

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

Mol	Chain	Res	Type
1	B	172	GLN
1	B	155	ASN
1	B	33	HIS
1	A	140	HIS
1	B	37	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 14 ligands modelled in this entry, 3 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	$\# Z  > 2$
4	GOL	B	204	-	5,5,5	0.10	0	5,5,5	0.28	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
6	ACT	A	205	-	3,3,3	5.05	3 (100%)	3,3,3	1.62	1 (33%)
6	ACT	A	204	-	3,3,3	1.06	0	3,3,3	1.09	0
7	FLC	B	205	-	12,12,12	1.01	0	17,17,17	1.17	2 (11%)
6	ACT	B	208	-	3,3,3	1.10	0	3,3,3	0.98	0
5	PO4	A	203	-	4,4,4	1.86	1 (25%)	6,6,6	0.41	0
4	GOL	B	202	-	5,5,5	0.10	0	5,5,5	0.38	0
4	GOL	B	203	-	5,5,5	0.15	0	5,5,5	0.44	0
6	ACT	B	206	-	3,3,3	1.16	0	3,3,3	0.91	0
4	GOL	A	202	-	5,5,5	0.17	0	5,5,5	0.21	0
6	ACT	B	207	-	3,3,3	1.00	0	3,3,3	0.98	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	GOL	B	204	-	-	0/4/4/4	-
7	FLC	B	205	-	-	0/16/16/16	-
4	GOL	B	202	-	-	2/4/4/4	-
4	GOL	B	203	-	-	1/4/4/4	-
4	GOL	A	202	-	-	0/4/4/4	-

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	A	205	ACT	CH3-C	-5.73	1.26	1.49
6	A	205	ACT	O-C	-4.76	1.01	1.22
6	A	205	ACT	OXT-C	-4.59	1.09	1.30
5	A	203	PO4	P-O4	2.02	1.60	1.54

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	B	205	FLC	OB1-CBC-CB	-2.29	117.65	122.09
6	A	205	ACT	O-C-CH3	-2.22	113.44	122.53
7	B	205	FLC	OB2-CBC-CB	2.10	117.16	113.14

There are no chirality outliers.

All (3) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	B	203	GOL	C1-C2-C3-O3
4	B	202	GOL	O2-C2-C3-O3
4	B	202	GOL	C1-C2-C3-O3

There are no ring outliers.

5 monomers are involved in 11 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	A	205	ACT	2	0
6	A	204	ACT	3	0
7	B	205	FLC	2	0
4	B	202	GOL	3	0
6	B	207	ACT	1	0

## 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, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
1	A	160/178 (89%)	0.33	6 (3%) 44 39	32, 60, 96, 108	1 (0%)
1	B	158/178 (88%)	0.31	7 (4%) 39 34	38, 56, 101, 137	2 (1%)
2	C	38/46 (82%)	0.88	6 (15%) 5 4	45, 68, 109, 127	0
2	D	37/46 (80%)	0.43	3 (8%) 18 15	38, 56, 85, 93	0
All	All	393/448 (87%)	0.39	22 (5%) 30 26	32, 59, 100, 137	3 (0%)

The worst 5 of 22 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	C	50	HIS	5.2
2	C	53	VAL	4.8
2	C	52	ARG	4.1
2	C	55	LEU	4.0
1	A	172	GLN	3.9

### 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, 95<sup>th</sup> 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
6	ACT	B	206	4/4	0.32	0.22	130,130,130,130	0
7	FLC	B	205	13/13	0.62	0.18	100,102,102,103	13
4	GOL	B	203	6/6	0.64	0.28	73,78,78,79	0
4	GOL	A	202	6/6	0.72	0.17	88,90,91,91	0
6	ACT	B	208	4/4	0.74	0.18	122,123,123,123	0
8	IOD	B	209	1/1	0.80	0.20	196,196,196,196	0
3	CL	B	201	1/1	0.82	0.14	110,110,110,110	0
3	CL	A	201	1/1	0.86	0.14	89,89,89,89	0
5	PO4	A	203	5/5	0.86	0.14	89,91,92,94	0
4	GOL	B	202	6/6	0.86	0.18	63,65,67,68	0
4	GOL	B	204	6/6	0.87	0.13	79,79,81,81	0
6	ACT	B	207	4/4	0.96	0.08	51,54,56,57	0
6	ACT	A	204	4/4	0.96	0.08	41,46,50,51	0
6	ACT	A	205	4/4	0.98	0.13	3,4,17,23	0

## 6.5 Other polymers [i](#)

There are no such residues in this entry.