



wwPDB X-ray Structure Validation Summary Report ⓘ

Nov 28, 2016 – 07:00 PM EST

PDB ID : 5GM2
Title : Crystal structure of methyltransferase TleD complexed with SAH and teleocidin A1
Authors : Yu, F.; Li, M.J.; Xu, C.Y.; Zhou, H.; Sun, B.; Wang, Z.J.; Xu, Q.; Xie, M.Y.; Zuo, G.; Huang, P.; Wang, Q.S.; He, J.H.
Deposited on : 2016-07-12
Resolution : 2.80 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

<http://wwpdb.org/validation/2016/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.7.1 (RC1), CSD as537be (2016)
Xtriage (Phenix) : 1.9-1692
EDS : rb-20028320
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
Refmac : 5.8.0135
CCP4 : 6.5.0
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : rb-20028320

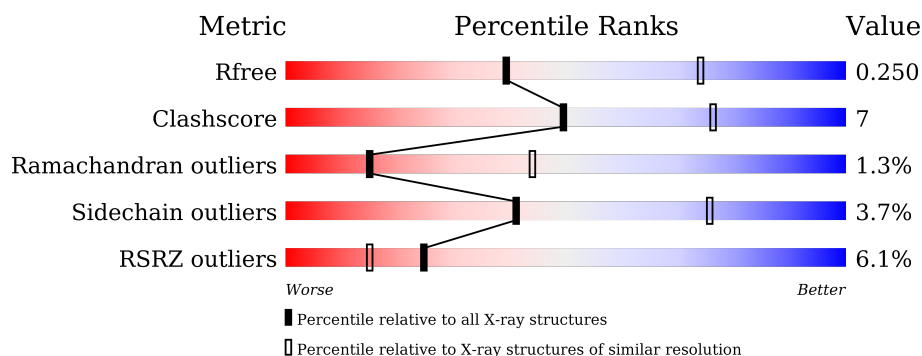
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.80 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}	91344	2393 (2.80-2.80)
Clashscore	102246	2827 (2.80-2.80)
Ramachandran outliers	100387	2782 (2.80-2.80)
Sidechain outliers	100360	2784 (2.80-2.80)
RSRZ outliers	91569	2404 (2.80-2.80)

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 on the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. 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	297	<div> <div></div> <div>79%</div> <div>14%</div> <div>• 5%</div> </div>
1	B	297	<div> <div>%</div> <div>79%</div> <div>13%</div> <div>• 5%</div> </div>
1	C	297	<div> <div>4%</div> <div>71%</div> <div>21%</div> <div>• 6%</div> </div>
1	D	297	<div> <div>%</div> <div>80%</div> <div>12%</div> <div>• 5%</div> </div>
1	E	297	<div> <div></div> <div>81%</div> <div>11%</div> <div>• 6%</div> </div>
1	F	297	<div> <div></div> <div>76%</div> <div>16%</div> <div>• 6%</div> </div>

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Mol	Chain	Length	Quality of chain
1	G	297	
1	H	297	
1	I	297	
1	J	297	
1	K	297	
1	L	297	
1	M	297	
1	N	297	
1	O	297	
1	P	297	
1	Q	297	
1	R	297	

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	SAH	H	301	-	-	-	X
2	SAH	I	301	-	-	-	X
2	SAH	J	301	-	-	-	X
2	SAH	K	301	-	-	-	X
2	SAH	N	301	-	-	-	X
2	SAH	Q	301	-	-	-	X
2	SAH	R	301	-	-	-	X
3	TEX	A	302	-	-	-	X
3	TEX	B	302	-	-	-	X
3	TEX	C	302	-	-	-	X
3	TEX	E	302	-	-	-	X
3	TEX	F	302	-	-	-	X
3	TEX	H	302	-	-	-	X
3	TEX	I	302	-	-	-	X
3	TEX	J	302	-	-	-	X
3	TEX	K	302	-	-	-	X
3	TEX	L	302	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
3	TEX	M	302	-	-	-	X
3	TEX	N	302	-	-	-	X
3	TEX	R	302	-	-	-	X

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 39205 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 O-methyltransferase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	281	Total	C	N	O	S	0	0	0
			2166	1375	367	413	11			
1	B	282	Total	C	N	O	S	0	0	0
			2175	1380	369	415	11			
1	C	279	Total	C	N	O	S	11	1	0
			2160	1370	368	411	11			
1	D	281	Total	C	N	O	S	0	0	0
			2166	1375	367	413	11			
1	E	279	Total	C	N	O	S	0	0	0
			2149	1364	364	410	11			
1	F	279	Total	C	N	O	S	0	0	0
			2149	1364	364	410	11			
1	G	266	Total	C	N	O	S	0	0	0
			2042	1297	348	386	11			
1	H	281	Total	C	N	O	S	0	0	0
			2166	1375	367	413	11			
1	I	266	Total	C	N	O	S	9	1	0
			2051	1302	349	389	11			
1	J	272	Total	C	N	O	S	0	0	0
			2094	1330	354	399	11			
1	K	267	Total	C	N	O	S	0	0	0
			2060	1300	355	394	11			
1	L	263	Total	C	N	O	S	0	0	0
			2021	1284	345	381	11			
1	M	264	Total	C	N	O	S	0	0	0
			2027	1286	346	384	11			
1	N	274	Total	C	N	O	S	0	0	0
			2113	1340	359	403	11			
1	O	279	Total	C	N	O	S	0	0	0
			2149	1364	364	410	11			
1	P	279	Total	C	N	O	S	0	0	0
			2149	1364	364	410	11			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	Q	266	Total	C	N	O	S	0	0	0
			2042	1297	348	386	11			
1	R	273	Total	C	N	O	S	0	0	0
			2116	1345	359	402	10			

There are 144 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	290	LEU	-	expression tag	UNP A0A077K7L1
A	291	GLU	-	expression tag	UNP A0A077K7L1
A	292	HIS	-	expression tag	UNP A0A077K7L1
A	293	HIS	-	expression tag	UNP A0A077K7L1
A	294	HIS	-	expression tag	UNP A0A077K7L1
A	295	HIS	-	expression tag	UNP A0A077K7L1
A	296	HIS	-	expression tag	UNP A0A077K7L1
A	297	HIS	-	expression tag	UNP A0A077K7L1
B	290	LEU	-	expression tag	UNP A0A077K7L1
B	291	GLU	-	expression tag	UNP A0A077K7L1
B	292	HIS	-	expression tag	UNP A0A077K7L1
B	293	HIS	-	expression tag	UNP A0A077K7L1
B	294	HIS	-	expression tag	UNP A0A077K7L1
B	295	HIS	-	expression tag	UNP A0A077K7L1
B	296	HIS	-	expression tag	UNP A0A077K7L1
B	297	HIS	-	expression tag	UNP A0A077K7L1
C	290	LEU	-	expression tag	UNP A0A077K7L1
C	291	GLU	-	expression tag	UNP A0A077K7L1
C	292	HIS	-	expression tag	UNP A0A077K7L1
C	293	HIS	-	expression tag	UNP A0A077K7L1
C	294	HIS	-	expression tag	UNP A0A077K7L1
C	295	HIS	-	expression tag	UNP A0A077K7L1
C	296	HIS	-	expression tag	UNP A0A077K7L1
C	297	HIS	-	expression tag	UNP A0A077K7L1
D	290	LEU	-	expression tag	UNP A0A077K7L1
D	291	GLU	-	expression tag	UNP A0A077K7L1
D	292	HIS	-	expression tag	UNP A0A077K7L1
D	293	HIS	-	expression tag	UNP A0A077K7L1
D	294	HIS	-	expression tag	UNP A0A077K7L1
D	295	HIS	-	expression tag	UNP A0A077K7L1
D	296	HIS	-	expression tag	UNP A0A077K7L1
D	297	HIS	-	expression tag	UNP A0A077K7L1
E	290	LEU	-	expression tag	UNP A0A077K7L1
E	291	GLU	-	expression tag	UNP A0A077K7L1

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Chain	Residue	Modelled	Actual	Comment	Reference
E	292	HIS	-	expression tag	UNP A0A077K7L1
E	293	HIS	-	expression tag	UNP A0A077K7L1
E	294	HIS	-	expression tag	UNP A0A077K7L1
E	295	HIS	-	expression tag	UNP A0A077K7L1
E	296	HIS	-	expression tag	UNP A0A077K7L1
E	297	HIS	-	expression tag	UNP A0A077K7L1
F	290	LEU	-	expression tag	UNP A0A077K7L1
F	291	GLU	-	expression tag	UNP A0A077K7L1
F	292	HIS	-	expression tag	UNP A0A077K7L1
F	293	HIS	-	expression tag	UNP A0A077K7L1
F	294	HIS	-	expression tag	UNP A0A077K7L1
F	295	HIS	-	expression tag	UNP A0A077K7L1
F	296	HIS	-	expression tag	UNP A0A077K7L1
F	297	HIS	-	expression tag	UNP A0A077K7L1
G	290	LEU	-	expression tag	UNP A0A077K7L1
G	291	GLU	-	expression tag	UNP A0A077K7L1
G	292	HIS	-	expression tag	UNP A0A077K7L1
G	293	HIS	-	expression tag	UNP A0A077K7L1
G	294	HIS	-	expression tag	UNP A0A077K7L1
G	295	HIS	-	expression tag	UNP A0A077K7L1
G	296	HIS	-	expression tag	UNP A0A077K7L1
G	297	HIS	-	expression tag	UNP A0A077K7L1
H	290	LEU	-	expression tag	UNP A0A077K7L1
H	291	GLU	-	expression tag	UNP A0A077K7L1
H	292	HIS	-	expression tag	UNP A0A077K7L1
H	293	HIS	-	expression tag	UNP A0A077K7L1
H	294	HIS	-	expression tag	UNP A0A077K7L1
H	295	HIS	-	expression tag	UNP A0A077K7L1
H	296	HIS	-	expression tag	UNP A0A077K7L1
H	297	HIS	-	expression tag	UNP A0A077K7L1
I	290	LEU	-	expression tag	UNP A0A077K7L1
I	291	GLU	-	expression tag	UNP A0A077K7L1
I	292	HIS	-	expression tag	UNP A0A077K7L1
I	293	HIS	-	expression tag	UNP A0A077K7L1
I	294	HIS	-	expression tag	UNP A0A077K7L1
I	295	HIS	-	expression tag	UNP A0A077K7L1
I	296	HIS	-	expression tag	UNP A0A077K7L1
I	297	HIS	-	expression tag	UNP A0A077K7L1
J	290	LEU	-	expression tag	UNP A0A077K7L1
J	291	GLU	-	expression tag	UNP A0A077K7L1
J	292	HIS	-	expression tag	UNP A0A077K7L1
J	293	HIS	-	expression tag	UNP A0A077K7L1

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Chain	Residue	Modelled	Actual	Comment	Reference
J	294	HIS	-	expression tag	UNP A0A077K7L1
J	295	HIS	-	expression tag	UNP A0A077K7L1
J	296	HIS	-	expression tag	UNP A0A077K7L1
J	297	HIS	-	expression tag	UNP A0A077K7L1
K	290	LEU	-	expression tag	UNP A0A077K7L1
K	291	GLU	-	expression tag	UNP A0A077K7L1
K	292	HIS	-	expression tag	UNP A0A077K7L1
K	293	HIS	-	expression tag	UNP A0A077K7L1
K	294	HIS	-	expression tag	UNP A0A077K7L1
K	295	HIS	-	expression tag	UNP A0A077K7L1
K	296	HIS	-	expression tag	UNP A0A077K7L1
K	297	HIS	-	expression tag	UNP A0A077K7L1
L	290	LEU	-	expression tag	UNP A0A077K7L1
L	291	GLU	-	expression tag	UNP A0A077K7L1
L	292	HIS	-	expression tag	UNP A0A077K7L1
L	293	HIS	-	expression tag	UNP A0A077K7L1
L	294	HIS	-	expression tag	UNP A0A077K7L1
L	295	HIS	-	expression tag	UNP A0A077K7L1
L	296	HIS	-	expression tag	UNP A0A077K7L1
L	297	HIS	-	expression tag	UNP A0A077K7L1
M	290	LEU	-	expression tag	UNP A0A077K7L1
M	291	GLU	-	expression tag	UNP A0A077K7L1
M	292	HIS	-	expression tag	UNP A0A077K7L1
M	293	HIS	-	expression tag	UNP A0A077K7L1
M	294	HIS	-	expression tag	UNP A0A077K7L1
M	295	HIS	-	expression tag	UNP A0A077K7L1
M	296	HIS	-	expression tag	UNP A0A077K7L1
M	297	HIS	-	expression tag	UNP A0A077K7L1
N	290	LEU	-	expression tag	UNP A0A077K7L1
N	291	GLU	-	expression tag	UNP A0A077K7L1
N	292	HIS	-	expression tag	UNP A0A077K7L1
N	293	HIS	-	expression tag	UNP A0A077K7L1
N	294	HIS	-	expression tag	UNP A0A077K7L1
N	295	HIS	-	expression tag	UNP A0A077K7L1
N	296	HIS	-	expression tag	UNP A0A077K7L1
N	297	HIS	-	expression tag	UNP A0A077K7L1
O	290	LEU	-	expression tag	UNP A0A077K7L1
O	291	GLU	-	expression tag	UNP A0A077K7L1
O	292	HIS	-	expression tag	UNP A0A077K7L1
O	293	HIS	-	expression tag	UNP A0A077K7L1
O	294	HIS	-	expression tag	UNP A0A077K7L1
O	295	HIS	-	expression tag	UNP A0A077K7L1

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Chain	Residue	Modelled	Actual	Comment	Reference
O	296	HIS	-	expression tag	UNP A0A077K7L1
O	297	HIS	-	expression tag	UNP A0A077K7L1
P	290	LEU	-	expression tag	UNP A0A077K7L1
P	291	GLU	-	expression tag	UNP A0A077K7L1
P	292	HIS	-	expression tag	UNP A0A077K7L1
P	293	HIS	-	expression tag	UNP A0A077K7L1
P	294	HIS	-	expression tag	UNP A0A077K7L1
P	295	HIS	-	expression tag	UNP A0A077K7L1
P	296	HIS	-	expression tag	UNP A0A077K7L1
P	297	HIS	-	expression tag	UNP A0A077K7L1
Q	290	LEU	-	expression tag	UNP A0A077K7L1
Q	291	GLU	-	expression tag	UNP A0A077K7L1
Q	292	HIS	-	expression tag	UNP A0A077K7L1
Q	293	HIS	-	expression tag	UNP A0A077K7L1
Q	294	HIS	-	expression tag	UNP A0A077K7L1
Q	295	HIS	-	expression tag	UNP A0A077K7L1
Q	296	HIS	-	expression tag	UNP A0A077K7L1
Q	297	HIS	-	expression tag	UNP A0A077K7L1
R	290	LEU	-	expression tag	UNP A0A077K7L1
R	291	GLU	-	expression tag	UNP A0A077K7L1
R	292	HIS	-	expression tag	UNP A0A077K7L1
R	293	HIS	-	expression tag	UNP A0A077K7L1
R	294	HIS	-	expression tag	UNP A0A077K7L1
R	295	HIS	-	expression tag	UNP A0A077K7L1
R	296	HIS	-	expression tag	UNP A0A077K7L1
R	297	HIS	-	expression tag	UNP A0A077K7L1

- Molecule 2 is S-ADENOSYL-L-HOMOCYSTEINE (three-letter code: SAH) (formula: $C_{14}H_{20}N_6O_5S$).

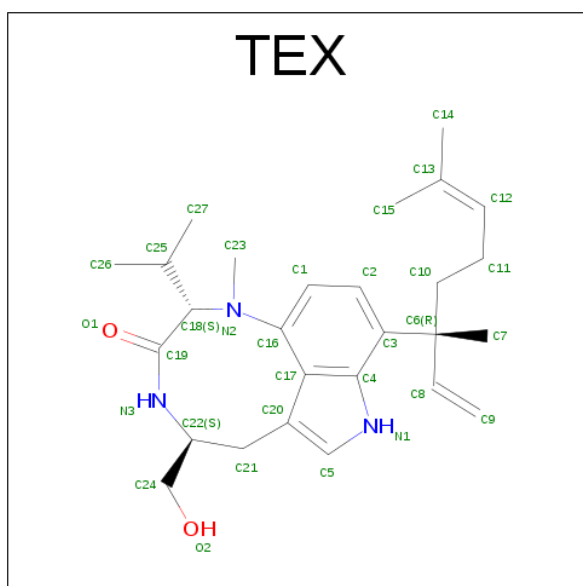


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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
2	O	1	Total	C	N	O	S	0	0
			26	14	6	5	1		
2	P	1	Total	C	N	O	S	0	0
			26	14	6	5	1		
2	Q	1	Total	C	N	O	S	0	0
			26	14	6	5	1		
2	R	1	Total	C	N	O	S	0	0
			26	14	6	5	1		

- Molecule 3 is (2S,5S)-9-[(3R)-3,7-dimethylocta-1,6-dien-3-yl]-5-(hydroxymethyl)-1-methyl-2-(propan-2-yl)-1,2,4,5,6,8-hexahydro-3H-[1,4]diazonino[7,6,5-cd]indol-3-one (three-letter code: TEX) (formula: C₂₇H₃₉N₃O₂).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	A	1	Total	C	N	O		0	0
			32	27	3	2			
3	B	1	Total	C	N	O		0	0
			32	27	3	2			
3	C	1	Total	C	N	O		0	0
			32	27	3	2			
3	D	1	Total	C	N	O		0	0
			32	27	3	2			
3	E	1	Total	C	N	O		0	0
			32	27	3	2			
3	F	1	Total	C	N	O		0	0
			32	27	3	2			

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	G	1	Total	C	N	O	0	0
			32	27	3	2		
3	H	1	Total	C	N	O	0	0
			32	27	3	2		
3	I	1	Total	C	N	O	0	0
			32	27	3	2		
3	J	1	Total	C	N	O	0	0
			32	27	3	2		
3	K	1	Total	C	N	O	0	0
			32	27	3	2		
3	L	1	Total	C	N	O	0	0
			32	27	3	2		
3	M	1	Total	C	N	O	0	0
			32	27	3	2		
3	N	1	Total	C	N	O	0	0
			32	27	3	2		
3	O	1	Total	C	N	O	0	0
			32	27	3	2		
3	P	1	Total	C	N	O	0	0
			32	27	3	2		
3	Q	1	Total	C	N	O	0	0
			32	27	3	2		
3	R	1	Total	C	N	O	0	0
			32	27	3	2		

- Molecule 4 is water.

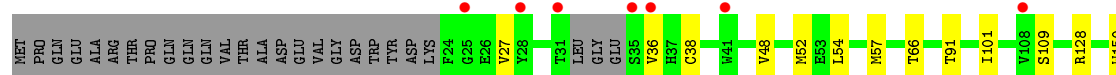
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	21	Total	O	0	0
			21	21		
4	B	19	Total	O	0	0
			19	19		
4	C	9	Total	O	0	0
			9	9		
4	D	11	Total	O	0	0
			11	11		
4	E	12	Total	O	0	0
			12	12		
4	F	28	Total	O	0	0
			28	28		
4	G	7	Total	O	0	0
			7	7		

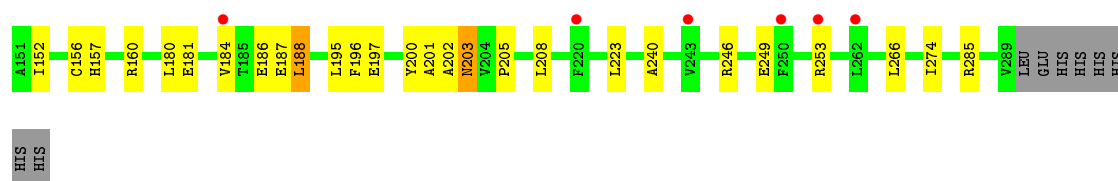
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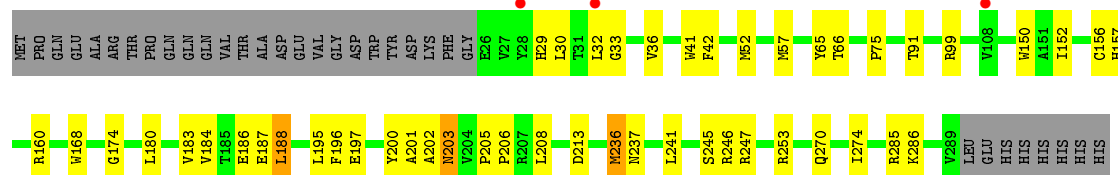
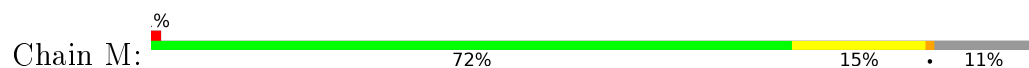
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	H	4	Total 4	O 4	0	0
4	I	14	Total 14	O 14	0	0
4	J	2	Total 2	O 2	0	0
4	K	3	Total 3	O 3	0	0
4	L	3	Total 3	O 3	0	0
4	M	5	Total 5	O 5	0	0
4	N	5	Total 5	O 5	0	0
4	O	8	Total 8	O 8	0	0
4	P	2	Total 2	O 2	0	0
4	Q	2	Total 2	O 2	0	0
4	R	11	Total 11	O 11	0	0



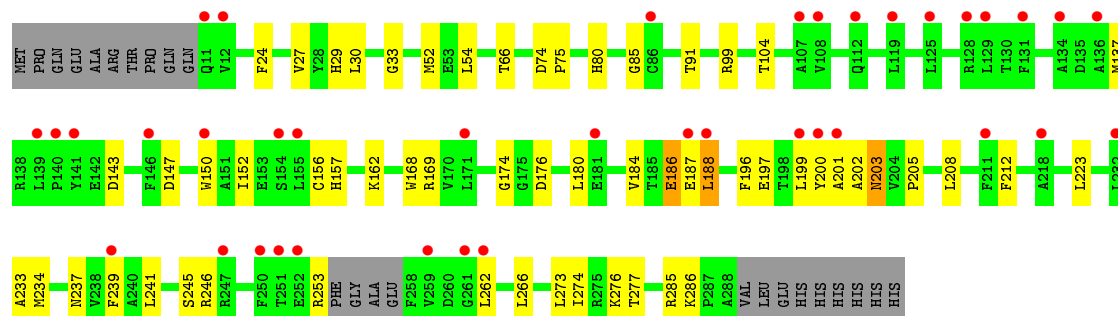




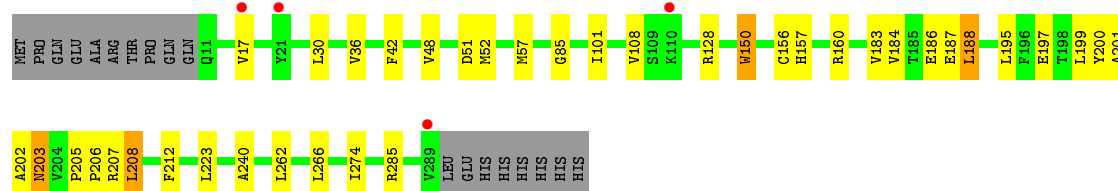
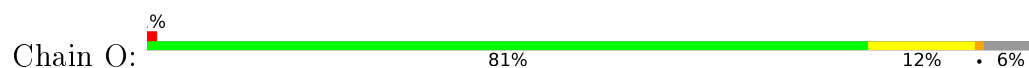
- Molecule 1: O-methyltransferase



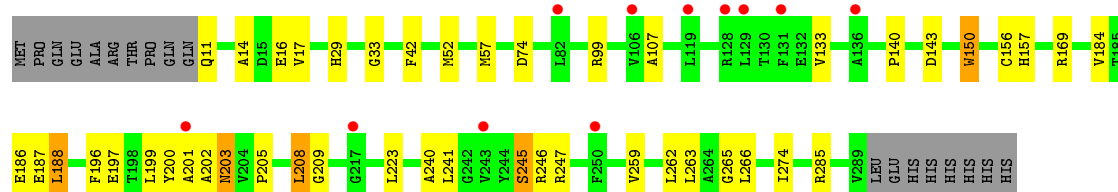
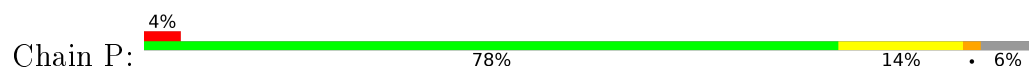
- Molecule 1: O-methyltransferase




- Molecule 1: O-methyltransferase

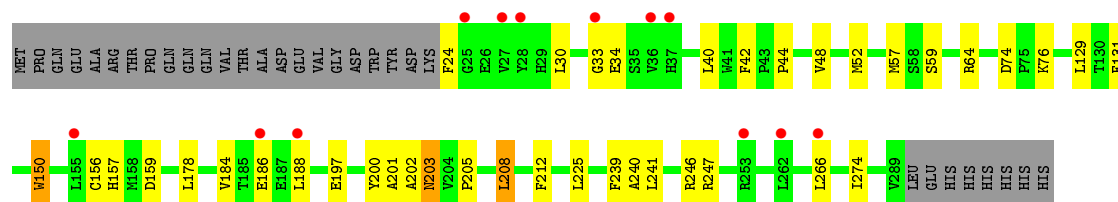


- Molecule 1: O-methyltransferase



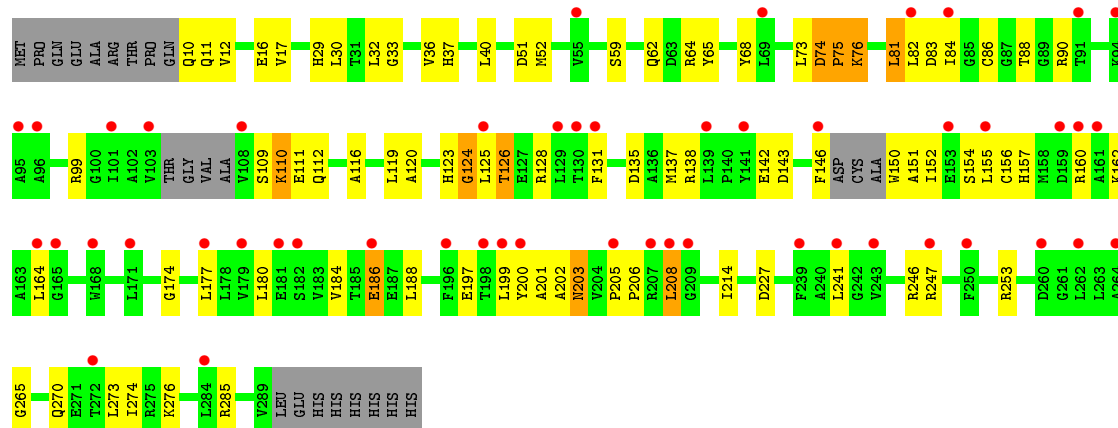
- Molecule 1: O-methyltransferase

Chain Q:  4% 76% 12% 10%



- Molecule 1: O-methyltransferase

Chain R:  17% 63% 26% 8%



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	257.46Å 152.76Å 154.17Å 90.00° 93.06° 90.00°	Depositor
Resolution (Å)	153.95 – 2.80 153.95 – 2.80	Depositor EDS
% Data completeness (in resolution range)	99.8 (153.95-2.80) 99.8 (153.95-2.80)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.08 (at 2.82Å)	Xtriage
Refinement program	PHENIX (1.10.1_2155: ???)	Depositor
R, R_{free}	0.207 , 0.249 0.214 , 0.250	Depositor DCC
R_{free} test set	7113 reflections (5.12%)	DCC
Wilson B-factor (Å ²)	59.6	Xtriage
Anisotropy	0.508	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 66.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	0.008 for 1/2*h+3/2*k,1/2*h-1/2*k,-l 0.010 for 1/2*h-3/2*k,-1/2*h-1/2*k,-l	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	39205	wwPDB-VP
Average B, all atoms (Å ²)	91.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.25% 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 [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: TEX, SAH

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	0.26	0/2211	0.48	0/3001
1	B	0.26	0/2220	0.47	0/3013
1	C	0.25	0/2205	0.47	0/2992
1	D	0.25	0/2211	0.46	0/3001
1	E	0.26	0/2194	0.47	0/2978
1	F	0.26	0/2194	0.47	0/2978
1	G	0.25	0/2084	0.45	0/2827
1	H	0.28	0/2211	0.47	0/3001
1	I	0.26	0/2093	0.47	0/2839
1	J	0.25	0/2136	0.44	0/2897
1	K	0.25	0/2099	0.46	0/2845
1	L	0.25	0/2062	0.45	0/2796
1	M	0.25	0/2068	0.45	0/2806
1	N	0.25	0/2156	0.46	0/2925
1	O	0.25	0/2194	0.46	0/2978
1	P	0.25	0/2194	0.44	0/2978
1	Q	0.26	0/2084	0.45	0/2827
1	R	0.25	0/2159	0.48	0/2926
All	All	0.26	0/38775	0.46	0/52608

There are no bond length outliers.

There are no bond angle outliers.

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	2166	0	2127	36	0
1	B	2175	0	2135	36	0
1	C	2160	0	2120	43	0
1	D	2166	0	2127	29	0
1	E	2149	0	2108	28	0
1	F	2149	0	2108	36	0
1	G	2042	0	2017	29	0
1	H	2166	0	2127	42	1
1	I	2051	0	2022	33	0
1	J	2094	0	2057	32	0
1	K	2060	0	2025	26	0
1	L	2021	0	1996	27	0
1	M	2027	0	2005	34	0
1	N	2113	0	2075	40	0
1	O	2149	0	2108	32	0
1	P	2149	0	2108	33	0
1	Q	2042	0	2017	33	0
1	R	2116	0	2076	64	1
2	A	26	0	19	2	0
2	B	26	0	19	0	0
2	C	26	0	19	1	0
2	D	26	0	19	3	0
2	E	26	0	19	1	0
2	F	26	0	19	2	0
2	G	26	0	19	2	0
2	H	26	0	19	1	0
2	I	26	0	19	2	0
2	J	26	0	19	2	0
2	K	26	0	19	1	0
2	L	26	0	19	1	0
2	M	26	0	19	0	0
2	N	26	0	19	2	0
2	O	26	0	19	2	0
2	P	26	0	19	2	0
2	Q	26	0	19	2	0
2	R	26	0	19	1	0
3	A	32	0	0	2	0
3	B	32	0	0	1	0
3	C	32	0	0	1	0
3	D	32	0	0	2	0
3	E	32	0	0	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	F	32	0	0	2	0
3	G	32	0	0	1	0
3	H	32	0	0	2	0
3	I	32	0	0	1	0
3	J	32	0	0	1	0
3	K	32	0	0	2	0
3	L	32	0	0	1	0
3	M	32	0	0	2	0
3	N	32	0	0	2	0
3	O	32	0	0	2	0
3	P	32	0	0	2	0
3	Q	32	0	0	1	0
3	R	32	0	0	1	0
4	A	21	0	0	2	0
4	B	19	0	0	2	0
4	C	9	0	0	3	0
4	D	11	0	0	0	0
4	E	12	0	0	2	0
4	F	28	0	0	3	0
4	G	7	0	0	2	0
4	H	4	0	0	3	0
4	I	14	0	0	1	0
4	J	2	0	0	1	0
4	K	3	0	0	1	0
4	L	3	0	0	0	0
4	M	5	0	0	1	0
4	N	5	0	0	1	0
4	O	8	0	0	1	0
4	P	2	0	0	0	0
4	Q	2	0	0	0	0
4	R	11	0	0	6	0
All	All	39205	0	37700	548	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 7.

The worst 5 of 548 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:E:11:GLN:N	4:E:401:HOH:O	1.97	0.97
1:Q:159:ASP:HA	1:R:10:GLN:HE22	1.33	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:197:GLU:HA	1:L:202:ALA:HB2	1.59	0.85
1:D:184:VAL:HG13	1:D:205:PRO:HG2	1.58	0.84
1:F:184:VAL:HG13	1:F:205:PRO:HG2	1.59	0.84

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)
1:R:126:THR:OG1	1:R:126:THR:OG1[2_455]	2.09	0.11
1:H:117:ASN:OD1	1:H:126:THR:OG1[2_555]	2.12	0.08

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	279/297 (94%)	268 (96%)	9 (3%)	2 (1%)	26	62
1	B	280/297 (94%)	269 (96%)	6 (2%)	5 (2%)	11	34
1	C	278/297 (94%)	261 (94%)	12 (4%)	5 (2%)	11	34
1	D	279/297 (94%)	268 (96%)	8 (3%)	3 (1%)	17	50
1	E	277/297 (93%)	265 (96%)	8 (3%)	4 (1%)	14	42
1	F	277/297 (93%)	269 (97%)	6 (2%)	2 (1%)	26	62
1	G	264/297 (89%)	252 (96%)	8 (3%)	4 (2%)	13	40
1	H	279/297 (94%)	260 (93%)	15 (5%)	4 (1%)	14	42
1	I	265/297 (89%)	253 (96%)	8 (3%)	4 (2%)	13	40
1	J	266/297 (90%)	254 (96%)	9 (3%)	3 (1%)	17	50
1	K	259/297 (87%)	240 (93%)	15 (6%)	4 (2%)	13	40
1	L	259/297 (87%)	249 (96%)	8 (3%)	2 (1%)	24	58
1	M	262/297 (88%)	250 (95%)	10 (4%)	2 (1%)	24	58

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	N	270/297 (91%)	256 (95%)	12 (4%)	2 (1%)	26	62
1	O	277/297 (93%)	267 (96%)	8 (3%)	2 (1%)	26	62
1	P	277/297 (93%)	264 (95%)	9 (3%)	4 (1%)	14	42
1	Q	264/297 (89%)	251 (95%)	11 (4%)	2 (1%)	24	58
1	R	267/297 (90%)	249 (93%)	11 (4%)	7 (3%)	7	22
All	All	4879/5346 (91%)	4645 (95%)	173 (4%)	61 (1%)	15	44

5 of 61 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	203	ASN
1	C	126	THR
1	E	203	ASN
1	I	203	ASN
1	R	75	PRO

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	224/239 (94%)	218 (97%)	6 (3%)	52	85
1	B	225/239 (94%)	213 (95%)	12 (5%)	28	61
1	C	223/239 (93%)	212 (95%)	11 (5%)	31	65
1	D	224/239 (94%)	216 (96%)	8 (4%)	42	76
1	E	222/239 (93%)	218 (98%)	4 (2%)	66	91
1	F	222/239 (93%)	214 (96%)	8 (4%)	42	76
1	G	211/239 (88%)	204 (97%)	7 (3%)	45	79
1	H	224/239 (94%)	215 (96%)	9 (4%)	38	73
1	I	212/239 (89%)	201 (95%)	11 (5%)	29	62
1	J	217/239 (91%)	208 (96%)	9 (4%)	37	72
1	K	214/239 (90%)	205 (96%)	9 (4%)	36	71

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	L	209/239 (87%)	202 (97%)	7 (3%)	45	79
1	M	210/239 (88%)	202 (96%)	8 (4%)	40	74
1	N	219/239 (92%)	213 (97%)	6 (3%)	52	85
1	O	222/239 (93%)	218 (98%)	4 (2%)	66	91
1	P	222/239 (93%)	215 (97%)	7 (3%)	46	80
1	Q	211/239 (88%)	205 (97%)	6 (3%)	51	84
1	R	219/239 (92%)	204 (93%)	15 (7%)	20	49
All	All	3930/4302 (91%)	3783 (96%)	147 (4%)	41	76

5 of 147 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	I	26	GLU
1	J	200	TYR
1	R	110	LYS
1	I	150	TRP
1	I	247	ARG

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	Res	Type
1	R	10	GLN
1	R	157	HIS

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 ⓘ

There are no carbohydrates in this entry.

5.6 Ligand geometry ⓘ

36 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	SAH	A	301	-	22,28,28	1.05	2 (9%)	18,40,40	3.02	4 (22%)
3	TEX	A	302	-	33,34,34	0.81	2 (6%)	22,50,50	1.44	3 (13%)
2	SAH	B	301	-	22,28,28	1.06	2 (9%)	18,40,40	2.94	3 (16%)
3	TEX	B	302	-	33,34,34	0.80	2 (6%)	22,50,50	1.40	2 (9%)
2	SAH	C	301	-	22,28,28	1.04	2 (9%)	18,40,40	3.10	3 (16%)
3	TEX	C	302	-	33,34,34	0.82	2 (6%)	22,50,50	1.45	3 (13%)
2	SAH	D	301	-	22,28,28	1.04	2 (9%)	18,40,40	3.01	3 (16%)
3	TEX	D	302	-	33,34,34	0.82	2 (6%)	22,50,50	1.44	2 (9%)
2	SAH	E	301	-	22,28,28	1.05	2 (9%)	18,40,40	3.02	2 (11%)
3	TEX	E	302	-	33,34,34	0.82	2 (6%)	22,50,50	1.43	3 (13%)
2	SAH	F	301	-	22,28,28	1.07	2 (9%)	18,40,40	3.01	3 (16%)
3	TEX	F	302	-	33,34,34	0.83	2 (6%)	22,50,50	1.54	4 (18%)
2	SAH	G	301	-	22,28,28	1.09	2 (9%)	18,40,40	2.89	2 (11%)
3	TEX	G	302	-	33,34,34	0.80	2 (6%)	22,50,50	1.49	4 (18%)
2	SAH	H	301	-	22,28,28	1.07	2 (9%)	18,40,40	3.02	3 (16%)
3	TEX	H	302	-	33,34,34	0.81	2 (6%)	22,50,50	1.43	2 (9%)
2	SAH	I	301	-	22,28,28	1.06	2 (9%)	18,40,40	3.02	3 (16%)
3	TEX	I	302	-	33,34,34	0.82	2 (6%)	22,50,50	1.41	2 (9%)
2	SAH	J	301	-	22,28,28	1.07	2 (9%)	18,40,40	2.95	2 (11%)
3	TEX	J	302	-	33,34,34	0.81	2 (6%)	22,50,50	1.39	1 (4%)
2	SAH	K	301	-	22,28,28	1.07	2 (9%)	18,40,40	2.95	2 (11%)
3	TEX	K	302	-	33,34,34	0.80	2 (6%)	22,50,50	1.38	2 (9%)
2	SAH	L	301	-	22,28,28	1.06	2 (9%)	18,40,40	3.04	2 (11%)
3	TEX	L	302	-	33,34,34	0.82	2 (6%)	22,50,50	1.51	3 (13%)
2	SAH	M	301	-	22,28,28	1.04	2 (9%)	18,40,40	3.06	2 (11%)
3	TEX	M	302	-	33,34,34	0.82	2 (6%)	22,50,50	1.50	4 (18%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	SAH	N	301	-	22,28,28	1.06	2 (9%)	18,40,40	2.93	2 (11%)
3	TEX	N	302	-	33,34,34	0.81	2 (6%)	22,50,50	1.47	3 (13%)
2	SAH	O	301	-	22,28,28	1.04	2 (9%)	18,40,40	3.11	3 (16%)
3	TEX	O	302	-	33,34,34	0.80	2 (6%)	22,50,50	1.50	3 (13%)
2	SAH	P	301	-	22,28,28	1.06	2 (9%)	18,40,40	3.01	2 (11%)
3	TEX	P	302	-	33,34,34	0.81	2 (6%)	22,50,50	1.42	2 (9%)
2	SAH	Q	301	-	22,28,28	1.04	2 (9%)	18,40,40	3.09	3 (16%)
3	TEX	Q	302	-	33,34,34	0.81	2 (6%)	22,50,50	1.48	2 (9%)
2	SAH	R	301	-	22,28,28	1.08	2 (9%)	18,40,40	2.93	2 (11%)
3	TEX	R	302	-	33,34,34	0.82	2 (6%)	22,50,50	1.39	1 (4%)

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	SAH	A	301	-	-	0/7/31/31	0/3/3/3
3	TEX	A	302	-	-	0/21/42/42	0/2/3/3
2	SAH	B	301	-	-	0/7/31/31	0/3/3/3
3	TEX	B	302	-	-	0/21/42/42	0/2/3/3
2	SAH	C	301	-	-	0/7/31/31	0/3/3/3
3	TEX	C	302	-	-	0/21/42/42	0/2/3/3
2	SAH	D	301	-	-	0/7/31/31	0/3/3/3
3	TEX	D	302	-	-	0/21/42/42	0/2/3/3
2	SAH	E	301	-	-	0/7/31/31	0/3/3/3
3	TEX	E	302	-	-	0/21/42/42	0/2/3/3
2	SAH	F	301	-	-	0/7/31/31	0/3/3/3
3	TEX	F	302	-	-	0/21/42/42	0/2/3/3
2	SAH	G	301	-	-	0/7/31/31	0/3/3/3
3	TEX	G	302	-	-	0/21/42/42	0/2/3/3
2	SAH	H	301	-	-	0/7/31/31	0/3/3/3
3	TEX	H	302	-	-	0/21/42/42	0/2/3/3
2	SAH	I	301	-	-	0/7/31/31	0/3/3/3
3	TEX	I	302	-	-	0/21/42/42	0/2/3/3
2	SAH	J	301	-	-	0/7/31/31	0/3/3/3
3	TEX	J	302	-	-	0/21/42/42	0/2/3/3
2	SAH	K	301	-	-	0/7/31/31	0/3/3/3
3	TEX	K	302	-	-	0/21/42/42	0/2/3/3
2	SAH	L	301	-	-	0/7/31/31	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	TEX	L	302	-	-	0/21/42/42	0/2/3/3
2	SAH	M	301	-	-	0/7/31/31	0/3/3/3
3	TEX	M	302	-	-	0/21/42/42	0/2/3/3
2	SAH	N	301	-	-	0/7/31/31	0/3/3/3
3	TEX	N	302	-	-	0/21/42/42	0/2/3/3
2	SAH	O	301	-	-	0/7/31/31	0/3/3/3
3	TEX	O	302	-	-	0/21/42/42	0/2/3/3
2	SAH	P	301	-	-	0/7/31/31	0/3/3/3
3	TEX	P	302	-	-	0/21/42/42	0/2/3/3
2	SAH	Q	301	-	-	0/7/31/31	0/3/3/3
3	TEX	Q	302	-	-	0/21/42/42	0/2/3/3
2	SAH	R	301	-	-	0/7/31/31	0/3/3/3
3	TEX	R	302	-	-	0/21/42/42	0/2/3/3

The worst 5 of 72 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	J	302	TEX	C3-C4	-2.99	1.40	1.43
3	K	302	TEX	C3-C4	-2.98	1.40	1.43
3	R	302	TEX	C3-C4	-2.97	1.40	1.43
3	B	302	TEX	C3-C4	-2.95	1.40	1.43
3	C	302	TEX	C3-C4	-2.93	1.40	1.43

The worst 5 of 92 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	301	SAH	N3-C2-N1	-11.96	119.47	128.87
2	O	301	SAH	N3-C2-N1	-11.96	119.48	128.87
2	M	301	SAH	N3-C2-N1	-11.94	119.49	128.87
2	Q	301	SAH	N3-C2-N1	-11.86	119.55	128.87
2	E	301	SAH	N3-C2-N1	-11.73	119.66	128.87

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

34 monomers are involved in 54 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	301	SAH	2	0
3	A	302	TEX	2	0
3	B	302	TEX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	C	301	SAH	1	0
3	C	302	TEX	1	0
2	D	301	SAH	3	0
3	D	302	TEX	2	0
2	E	301	SAH	1	0
3	E	302	TEX	1	0
2	F	301	SAH	2	0
3	F	302	TEX	2	0
2	G	301	SAH	2	0
3	G	302	TEX	1	0
2	H	301	SAH	1	0
3	H	302	TEX	2	0
2	I	301	SAH	2	0
3	I	302	TEX	1	0
2	J	301	SAH	2	0
3	J	302	TEX	1	0
2	K	301	SAH	1	0
3	K	302	TEX	2	0
2	L	301	SAH	1	0
3	L	302	TEX	1	0
3	M	302	TEX	2	0
2	N	301	SAH	2	0
3	N	302	TEX	2	0
2	O	301	SAH	2	0
3	O	302	TEX	2	0
2	P	301	SAH	2	0
3	P	302	TEX	2	0
2	Q	301	SAH	2	0
3	Q	302	TEX	1	0
2	R	301	SAH	1	0
3	R	302	TEX	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 ⓘ

6.1 Protein, DNA and RNA chains ⓘ

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	281/297 (94%)	-0.03	1 (0%) 93 90	34, 53, 80, 130	0
1	B	282/297 (94%)	0.03	2 (0%) 89 84	41, 63, 98, 122	0
1	C	279/297 (93%)	0.39	11 (3%) 43 31	51, 82, 127, 146	0
1	D	281/297 (94%)	0.14	3 (1%) 82 74	48, 76, 116, 156	0
1	E	279/297 (93%)	0.03	1 (0%) 93 90	42, 71, 105, 130	0
1	F	279/297 (93%)	-0.01	0 100 100	36, 55, 94, 126	0
1	G	266/297 (89%)	0.44	18 (6%) 20 12	53, 98, 152, 189	0
1	H	281/297 (94%)	1.31	62 (22%) 1 1	83, 126, 176, 251	0
1	I	266/297 (89%)	-0.03	1 (0%) 93 90	29, 55, 105, 155	0
1	J	272/297 (91%)	0.90	46 (16%) 2 1	68, 120, 169, 209	0
1	K	267/297 (89%)	0.52	24 (8%) 12 6	38, 113, 160, 199	0
1	L	263/297 (88%)	0.34	13 (4%) 33 22	56, 92, 139, 183	0
1	M	264/297 (88%)	0.10	3 (1%) 82 74	45, 73, 126, 188	0
1	N	274/297 (92%)	0.84	38 (13%) 4 2	60, 122, 163, 231	0
1	O	279/297 (93%)	0.17	4 (1%) 78 69	44, 78, 122, 157	0
1	P	279/297 (93%)	0.37	11 (3%) 43 31	58, 99, 127, 159	0
1	Q	266/297 (89%)	0.26	12 (4%) 37 26	42, 74, 144, 193	0
1	R	273/297 (91%)	1.05	50 (18%) 2 1	68, 130, 178, 228	0
All	All	4931/5346 (92%)	0.38	300 (6%) 25 15	29, 85, 152, 251	0

The worst 5 of 300 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	H	265	GLY	9.8
1	H	134	ALA	9.8
1	J	87	GLY	7.4

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Mol	Chain	Res	Type	RSRZ
1	N	250	PHE	7.2
1	H	127	GLU	7.2

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 carbohydrates 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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. 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	LLDF	B-factors(Å ²)	Q<0.9
3	TEX	M	302	32/32	0.92	0.41	5.38	72,75,77,81	0
2	SAH	N	301	26/26	0.22	0.80	5.04	458,483,511,517	0
2	SAH	R	301	26/26	0.32	0.75	4.76	355,370,387,399	0
3	TEX	B	302	32/32	0.90	0.36	3.91	90,93,96,99	0
3	TEX	I	302	32/32	0.86	0.36	3.90	91,95,96,97	0
3	TEX	F	302	32/32	0.93	0.32	3.72	78,80,82,84	0
2	SAH	K	301	26/26	0.43	0.67	3.45	363,373,393,401	0
3	TEX	A	302	32/32	0.95	0.31	3.45	87,90,94,95	0
3	TEX	L	302	32/32	0.88	0.45	2.92	72,75,78,80	0
3	TEX	J	302	32/32	0.87	0.62	2.80	134,141,154,154	0
3	TEX	C	302	32/32	0.83	0.49	2.73	93,101,103,104	0
2	SAH	I	301	26/26	0.95	0.27	2.71	66,73,85,87	0
2	SAH	Q	301	26/26	0.93	0.29	2.16	70,72,74,75	0
3	TEX	E	302	32/32	0.92	0.33	2.07	61,65,69,70	0
2	SAH	G	301	26/26	0.77	0.37	1.80	194,201,205,207	0
2	SAH	F	301	26/26	0.96	0.27	1.74	100,104,113,115	0
3	TEX	N	302	32/32	0.89	0.50	1.68	95,100,105,106	0
3	TEX	Q	302	32/32	0.91	0.34	1.60	110,112,114,115	0
3	TEX	G	302	32/32	0.91	0.38	1.55	101,103,108,109	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
3	TEX	O	302	32/32	0.94	0.31	1.53	96,102,106,107	0
3	TEX	H	302	32/32	0.87	0.54	1.45	119,126,130,135	0
3	TEX	D	302	32/32	0.92	0.30	1.40	89,92,96,97	0
3	TEX	P	302	32/32	0.93	0.37	1.29	104,109,112,113	0
2	SAH	J	301	26/26	0.55	0.55	1.28	302,313,330,334	0
3	TEX	K	302	32/32	0.90	0.40	1.26	113,118,119,120	0
2	SAH	H	301	26/26	0.72	0.52	1.18	118,120,127,128	0
2	SAH	B	301	26/26	0.95	0.25	1.16	72,75,77,78	0
2	SAH	A	301	26/26	0.96	0.22	0.98	55,62,66,66	0
3	TEX	R	302	32/32	0.86	0.52	0.93	114,117,123,126	0
2	SAH	L	301	26/26	0.84	0.28	0.82	94,102,119,125	0
2	SAH	E	301	26/26	0.94	0.25	0.68	71,74,77,78	0
2	SAH	M	301	26/26	0.95	0.25	0.66	73,79,84,86	0
2	SAH	D	301	26/26	0.95	0.25	0.25	75,79,82,84	0
2	SAH	O	301	26/26	0.95	0.21	-0.03	59,62,64,64	0
2	SAH	P	301	26/26	0.88	0.26	-0.15	107,110,116,117	0
2	SAH	C	301	26/26	0.93	0.22	-0.42	69,75,79,81	0

6.5 Other polymers [i](#)

There are no such residues in this entry.