W O R L D W I D E

wwPDB

P R O T E I N   D A T A   B A N K

wwPDB X-ray Structure Validation Summary Report (i)

Jan 31, 2016 – 08:56 PM GMT

PDB ID	:	1MR9
Title	:	Crystal structure of Streptogramin A Acetyltransferase with acetyl-CoA bound
Authors	:	Kehoe, L.E.; Snidwongse, J.; Courvalin, P.; Rafferty, J.B.; Murray, I.A.
Deposited on	:	2002-09-18
Resolution	:	3.00 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 (i) symbol.

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

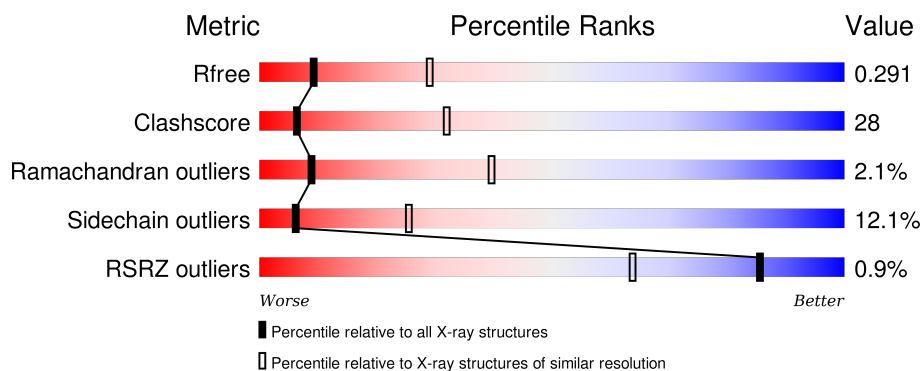|		
MolProbity	:	4.02b-467
Mogul	:	1.7 (RC4), CSD as536be (2015)
Xtriage (Phenix)	:	1.9-1692
EDS	:	rb-20026688
Percentile statistics	:	20151230.v01 (using entries in the PDB archive December 30th 2015)
Refmac	:	5.8.0135
CCP4	:	6.5.0
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	trunk26865

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 3.00 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	Percentile Ranks	Value
Rfree		0.291
Clashscore		28
Ramachandran outliers		2.1%
Sidechain outliers		12.1%
RSRZ outliers		0.9%

Worse ... *Better*

▮ Percentile relative to all X-ray structures
▯ Percentile relative to X-ray structures of similar resolution

Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R$_{free}$	91344	1578 (3.00-3.00)
Clashscore	102246	1912 (3.00-3.00)
Ramachandran outliers	100387	1853 (3.00-3.00)
Sidechain outliers	100360	1856 (3.00-3.00)
RSRZ outliers	91569	1592 (3.00-3.00)

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 <=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	209	52% 39% 6% •
1	B	209	48% 41% 8% • •
1	C	209	48% 41% 8% •
1	X	209	53% 34% 10% •
1	Y	209	43% 41% 11% • •

Continued from previous page...

Mol	Chain	Length	Quality of chain
1	Z	209	41%　　　　　　　　44%　　　　10%　　5%

2 Entry composition (i)

There are 2 unique types of molecules in this entry. The entry contains 9672 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 Streptogramin A Acetyltransferase.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	203	Total 1576	C 1017	N 257	O 293	S 1	Se 8	0	0	0
1	B	203	Total 1570	C 1014	N 259	O 288	S 1	Se 8	0	0	0
1	C	202	Total 1557	C 1005	N 252	O 292	S 1	Se 7	0	0	0
1	X	203	Total 1569	C 1013	N 257	O 291	S 1	Se 7	0	0	0
1	Y	200	Total 1547	C 997	N 252	O 290	S 1	Se 7	0	0	0
1	Z	199	Total 1551	C 1004	N 252	O 287	S 1	Se 7	0	0	0

There are 48 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1	MSE	MET	MODIFIED RESIDUE	UNP P50870
A	6	MSE	MET	MODIFIED RESIDUE	UNP P50870
A	8	MSE	MET	MODIFIED RESIDUE	UNP P50870
A	77	MSE	MET	MODIFIED RESIDUE	UNP P50870
A	84	MSE	MET	MODIFIED RESIDUE	UNP P50870
A	102	MSE	MET	MODIFIED RESIDUE	UNP P50870
A	129	MSE	MET	MODIFIED RESIDUE	UNP P50870
A	154	MSE	MET	MODIFIED RESIDUE	UNP P50870
B	1	MSE	MET	MODIFIED RESIDUE	UNP P50870
B	6	MSE	MET	MODIFIED RESIDUE	UNP P50870
B	8	MSE	MET	MODIFIED RESIDUE	UNP P50870
B	77	MSE	MET	MODIFIED RESIDUE	UNP P50870
B	84	MSE	MET	MODIFIED RESIDUE	UNP P50870
B	102	MSE	MET	MODIFIED RESIDUE	UNP P50870
B	129	MSE	MET	MODIFIED RESIDUE	UNP P50870
B	154	MSE	MET	MODIFIED RESIDUE	UNP P50870
C	1	MSE	MET	MODIFIED RESIDUE	UNP P50870

Continued on next page...

Continued from previous page...

Chain	Residue	Modelled	Actual	Comment	Reference
C	6	MSE	MET	MODIFIED RESIDUE	UNP P50870
C	8	MSE	MET	MODIFIED RESIDUE	UNP P50870
C	77	MSE	MET	MODIFIED RESIDUE	UNP P50870
C	84	MSE	MET	MODIFIED RESIDUE	UNP P50870
C	102	MSE	MET	MODIFIED RESIDUE	UNP P50870
C	129	MSE	MET	MODIFIED RESIDUE	UNP P50870
C	154	MSE	MET	MODIFIED RESIDUE	UNP P50870
X	1	MSE	MET	MODIFIED RESIDUE	UNP P50870
X	6	MSE	MET	MODIFIED RESIDUE	UNP P50870
X	8	MSE	MET	MODIFIED RESIDUE	UNP P50870
X	77	MSE	MET	MODIFIED RESIDUE	UNP P50870
X	84	MSE	MET	MODIFIED RESIDUE	UNP P50870
X	102	MSE	MET	MODIFIED RESIDUE	UNP P50870
X	129	MSE	MET	MODIFIED RESIDUE	UNP P50870
X	154	MSE	MET	MODIFIED RESIDUE	UNP P50870
Y	1	MSE	MET	MODIFIED RESIDUE	UNP P50870
Y	6	MSE	MET	MODIFIED RESIDUE	UNP P50870
Y	8	MSE	MET	MODIFIED RESIDUE	UNP P50870
Y	77	MSE	MET	MODIFIED RESIDUE	UNP P50870
Y	84	MSE	MET	MODIFIED RESIDUE	UNP P50870
Y	102	MSE	MET	MODIFIED RESIDUE	UNP P50870
Y	129	MSE	MET	MODIFIED RESIDUE	UNP P50870
Y	154	MSE	MET	MODIFIED RESIDUE	UNP P50870
Z	1	MSE	MET	MODIFIED RESIDUE	UNP P50870
Z	6	MSE	MET	MODIFIED RESIDUE	UNP P50870
Z	8	MSE	MET	MODIFIED RESIDUE	UNP P50870
Z	77	MSE	MET	MODIFIED RESIDUE	UNP P50870
Z	84	MSE	MET	MODIFIED RESIDUE	UNP P50870
Z	102	MSE	MET	MODIFIED RESIDUE	UNP P50870
Z	129	MSE	MET	MODIFIED RESIDUE	UNP P50870
Z	154	MSE	MET	MODIFIED RESIDUE	UNP P50870

- Molecule 2 is ACETYL COENZYME *A (three-letter code: ACO) (formula: $C_{23}H_{38}N_7O_{17}P_3S$).

ACO
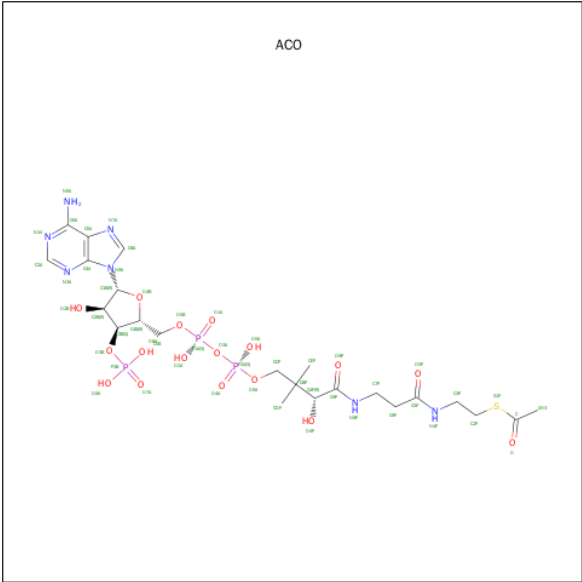
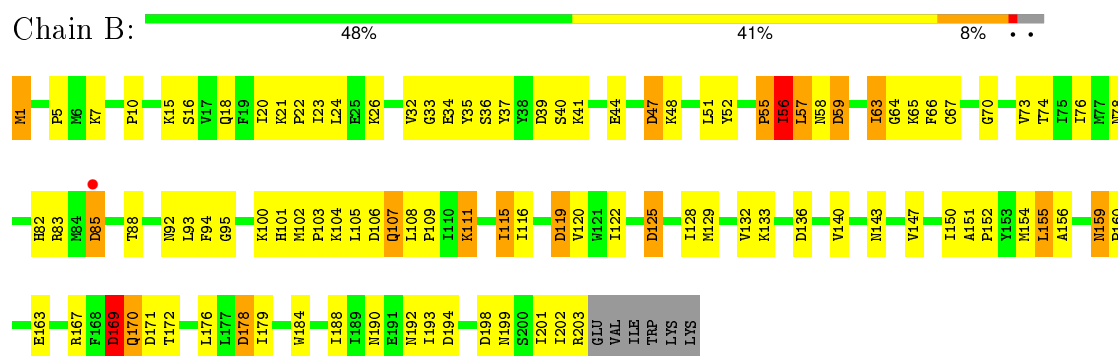| Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
2	B	1	Total	C	N	O	P	S	0	0
			51	23	7	17	3	1		
2	B	1	Total	C	N	O	P	S	0	0
			51	23	7	17	3	1		
2	A	1	Total	C	N	O	P	S	0	0
			51	23	7	17	3	1		
2	Y	1	Total	C	N	O	P	S	0	0
			51	23	7	17	3	1		
2	Z	1	Total	C	N	O	P		0	0
			47	21	7	16	3			
2	X	1	Total	C	N	O	P	S	0	0
			51	23	7	17	3	1		

3 Residue-property plots ⓘ

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors 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.
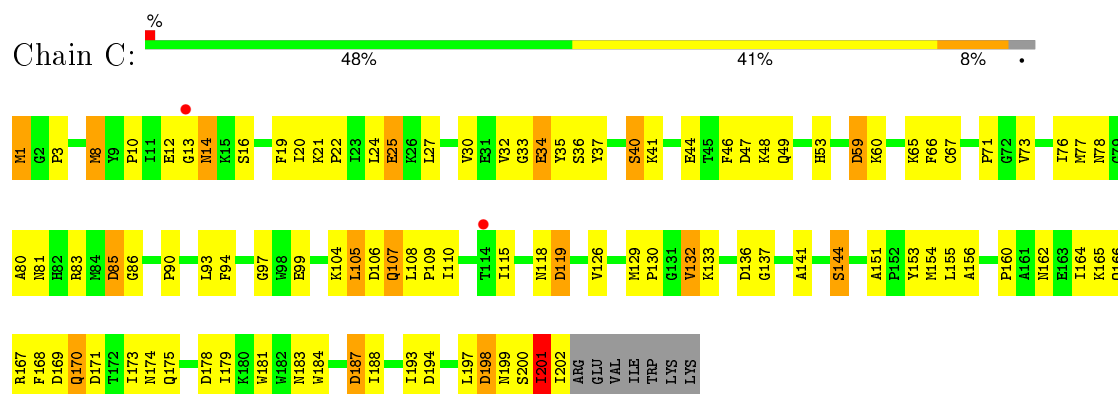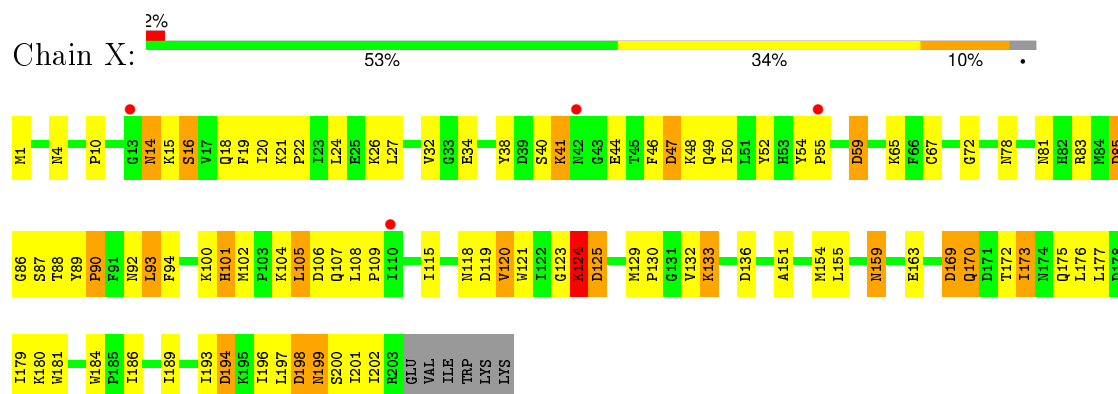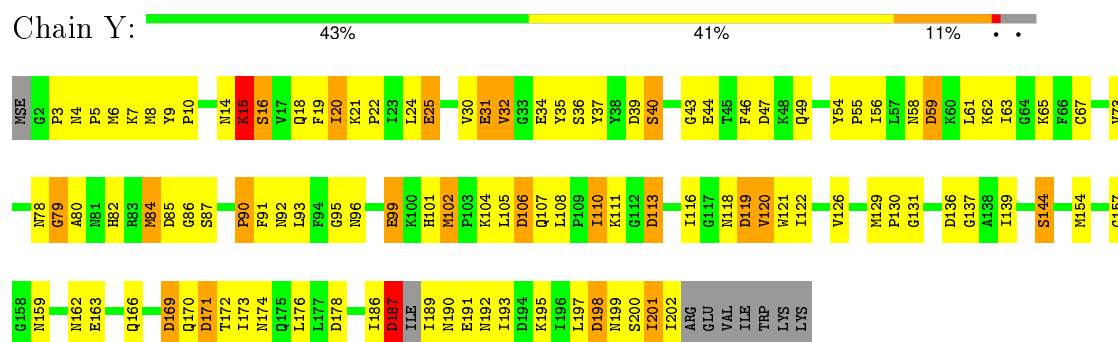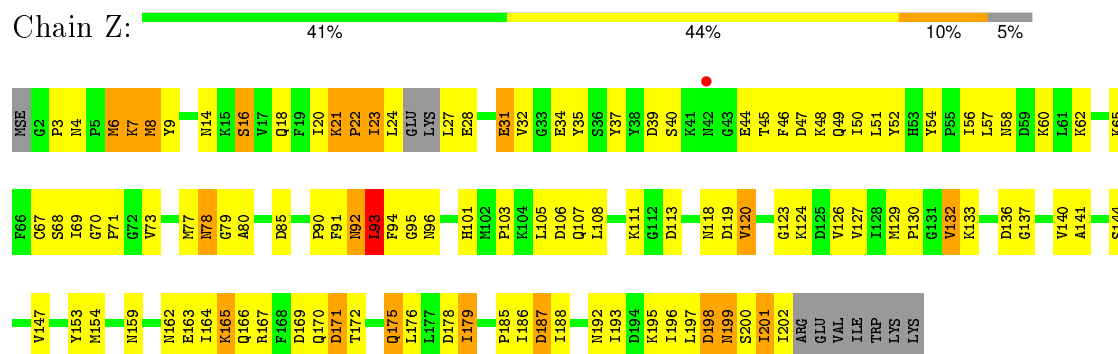
- Molecule 1: Streptogramin A Acetyltransferase
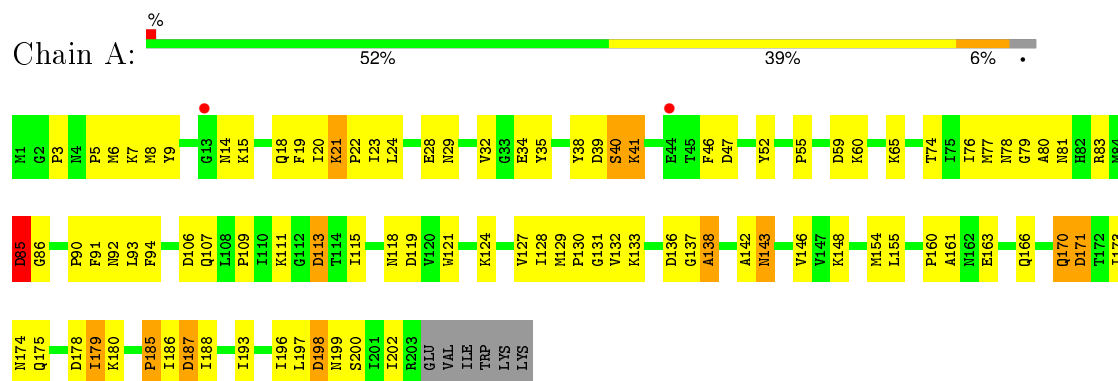
- Molecule 1: Streptogramin A Acetyltransferase

- Molecule 1: Streptogramin A Acetyltransferase

● Molecule 1: Streptogramin A Acetyltransferase

Chain X:

● Molecule 1: Streptogramin A Acetyltransferase

Chain Y:

● Molecule 1: Streptogramin A Acetyltransferase

Chain Z:

4 Data and refinement statistics (i)

Property	Value	Source
Space group	F 2 2 2	Depositor
Cell constants a, b, c, α, β, γ	181.52Å 184.53Å 186.27Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	20.00 – 3.00 19.69 – 3.00	Depositor EDS
% Data completeness (in resolution range)	89.7 (20.00-3.00) 89.7 (19.69-3.00)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	2.44 (at 2.98Å)	Xtriage
Refinement program	REFMAC 5	Depositor
R, R_{free}	0.243 , 0.295 0.242 , 0.291	Depositor DCC
R_{free} test set	1425 reflections (5.36%)	DCC
Wilson B-factor (Å^2)	67.6	Xtriage
Anisotropy	0.037	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.32 , 84.6	EDS
Estimated twinning fraction	0.021 for -h,l,k 0.024 for l,-k,h 0.028 for -k,-h,-l 0.012 for -k,-l,h 0.012 for l,-h,-k	Xtriage
L-test for twinning[2]	$< |L| > = 0.48, < L^2 > = 0.31$	Xtriage
Outliers	0 of 28034 reflections	Xtriage
F_o,F_c correlation	0.89	EDS
Total number of atoms	9672	wwPDB-VP
Average B, all atoms (Å^2)	65.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.16% of the height of the origin peak. No significant pseudotranslation is detected.*

---

[1]Intensities estimated from amplitudes.

[2]Theoretical values of $< |L| >$, $< L^2 >$ for acentric reflections are 0.5, 0.375 respectively for untwinned datasets, and 0.333, 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: ACO

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	0.44	0/1608	0.64	11/2177 (0.5%)
1	B	0.47	0/1602	0.64	11/2169 (0.5%)
1	C	0.41	0/1589	0.65	8/2155 (0.4%)
1	X	0.51	0/1601	0.64	9/2169 (0.4%)
1	Y	0.43	0/1578	0.64	13/2138 (0.6%)
1	Z	0.46	0/1582	0.62	7/2139 (0.3%)
All	All	0.46	0/9560	0.64	59/12947 (0.5%)

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	C	0	1

There are no bond length outliers.

The worst 5 of 59 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Z	47	ASP	CB-CG-OD2	5.90	123.61	118.30
1	Z	85	ASP	CB-CG-OD2	5.86	123.57	118.30
1	A	178	ASP	CB-CG-OD2	5.85	123.56	118.30
1	A	59	ASP	CB-CG-OD2	5.84	123.56	118.30
1	A	171	ASP	CB-CG-OD2	5.77	123.50	118.30

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	C	1	MSE	Peptide

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	1576	0	1541	76	0
1	B	1570	0	1538	88	0
1	C	1557	0	1504	89	0
1	X	1569	0	1530	93	0
1	Y	1547	0	1493	104	0
1	Z	1551	0	1525	100	0
2	A	51	0	34	3	0
2	B	102	0	68	8	0
2	X	51	0	34	5	0
2	Y	51	0	34	2	0
2	Z	47	0	29	1	0
All	All	9672	0	9330	527	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 28.

The worst 5 of 527 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:B:1:MSE:H3	1:B:190:ASN:ND2	1.48	1.11
1:B:1:MSE:N	1:B:190:ASN:HD21	1.47	1.10
1:A:52:TYR:CD1	1:A:80:ALA:HB2	1.93	1.03
1:B:1:MSE:N	1:B:190:ASN:ND2	2.07	0.99
1:Z:65:LYS:H	1:Z:118:ASN:HD22	1.08	0.99

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	201/209 (96%)	180 (90%)	16 (8%)	5 (2%)	7	34
1	B	201/209 (96%)	174 (87%)	24 (12%)	3 (2%)	13	50
1	C	200/209 (96%)	173 (86%)	25 (12%)	2 (1%)	19	61
1	X	201/209 (96%)	178 (89%)	18 (9%)	5 (2%)	7	34
1	Y	196/209 (94%)	164 (84%)	26 (13%)	6 (3%)	5	28
1	Z	195/209 (93%)	171 (88%)	20 (10%)	4 (2%)	9	40
All	All	1194/1254 (95%)	1040 (87%)	129 (11%)	25 (2%)	9	40

5 of 25 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	X	15	LYS
1	Z	93	LEU
1	Z	201	ILE
1	B	56	ILE
1	C	105	LEU

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	169/175 (97%)	155 (92%)	14 (8%)	14	46
1	B	167/175 (95%)	146 (87%)	21 (13%)	5	24
1	C	165/175 (94%)	144 (87%)	21 (13%)	5	23

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	X	167/175 (95%)	151 (90%)	16 (10%)	10	38
1	Y	165/175 (94%)	142 (86%)	23 (14%)	4	19
1	Z	167/175 (95%)	141 (84%)	26 (16%)	3	16
All	All	1000/1050 (95%)	879 (88%)	121 (12%)	6	25

5 of 121 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	C	198	ASP
1	X	133	LYS
1	Z	132	VAL
1	X	1	MSE
1	X	50	ILE

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 52 such sidechains are listed below:

Mol	Chain	Res	Type
1	C	78	ASN
1	X	58	ASN
1	Z	107	GLN
1	C	107	GLN
1	C	170	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 carbohydrates in this entry.

5.6 Ligand geometry (i)

6 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	ACO	A	302	-	43,53,53	1.08	3 (6%)	55,79,79	3.04	10 (18%)
2	ACO	B	300	-	43,53,53	1.08	2 (4%)	55,79,79	2.83	8 (14%)
2	ACO	B	301	-	43,53,53	1.02	2 (4%)	55,79,79	2.82	8 (14%)
2	ACO	X	305	-	43,53,53	1.12	5 (11%)	55,79,79	2.89	9 (16%)
2	ACO	Y	303	-	43,53,53	1.10	3 (6%)	55,79,79	2.95	11 (20%)
2	ACO	Z	304	-	39,49,53	1.07	1 (2%)	50,74,79	2.98	10 (20%)

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	ACO	A	302	-	-	0/47/67/67	0/3/3/3
2	ACO	B	300	-	-	0/47/67/67	0/3/3/3
2	ACO	B	301	-	-	0/47/67/67	0/3/3/3
2	ACO	X	305	-	-	0/47/67/67	0/3/3/3
2	ACO	Y	303	-	-	0/47/67/67	0/3/3/3
2	ACO	Z	304	-	-	0/43/63/67	0/3/3/3

The worst 5 of 16 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	Y	303	ACO	P3B-O3B	-3.14	1.50	1.60
2	B	300	ACO	P3B-O3B	-2.99	1.50	1.60
2	A	302	ACO	P3B-O3B	-2.96	1.51	1.60
2	X	305	ACO	P3B-O3B	-2.79	1.51	1.60
2	Z	304	ACO	P3B-O3B	-2.79	1.51	1.60

The worst 5 of 56 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	302	ACO	O3A-P1A-O5B	-14.13	65.46	102.94
2	Y	303	ACO	O3A-P1A-O5B	-12.17	70.66	102.94
2	Z	304	ACO	N3A-C2A-N1A	-7.91	122.84	128.89
2	B	300	ACO	N3A-C2A-N1A	-7.80	122.92	128.89
2	X	305	ACO	N3A-C2A-N1A	-7.78	122.94	128.89

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

6 monomers are involved in 19 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	302	ACO	3	0
2	B	300	ACO	4	0
2	B	301	ACO	4	0
2	X	305	ACO	5	0
2	Y	303	ACO	2	0
2	Z	304	ACO	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, 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	195/209 (93%)	-0.08	2 (1%)	84	60	66, 66, 66, 66	0
1	B	195/209 (93%)	-0.09	1 (0%)	91	76	66, 66, 66, 66	0
1	C	194/209 (92%)	0.08	2 (1%)	84	60	66, 66, 66, 66	0
1	X	195/209 (93%)	-0.13	4 (2%)	67	36	66, 66, 66, 66	0
1	Y	193/209 (92%)	-0.09	0	100	100	66, 66, 66, 66	0
1	Z	192/209 (91%)	-0.10	1 (0%)	91	76	66, 66, 66, 66	0
All	All	1164/1254 (92%)	-0.07	10 (0%)	85	64	66, 66, 66, 66	0

The worst 5 of 10 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	Z	42	ASN	2.9
1	X	13	GLY	2.6
1	B	85	ASP	2.6
1	A	44	GLU	2.6
1	X	42	ASN	2.4

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
2	ACO	B	300	51/51	0.84	0.26	0.97	65,65,65,65	0
2	ACO	A	302	51/51	0.85	0.27	0.87	65,65,65,65	0
2	ACO	Y	303	51/51	0.86	0.24	0.73	65,65,65,65	0
2	ACO	B	301	51/51	0.84	0.26	0.50	65,65,65,65	0
2	ACO	Z	304	47/51	0.87	0.24	0.29	65,65,65,65	0
2	ACO	X	305	51/51	0.87	0.23	0.21	65,65,65,65	0

6.5 Other polymers (i)

There are no such residues in this entry.