



wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 8, 2026 – 12:15 PM UTC

PDB ID : 6SX4 / pdb_00006sx4
Title : Structure of C. glutamicum mycoloyltransferase A
Authors : Li de la Sierra-Gallay, I.; Van tilbeurgh, H.; Bayan, N.
Deposited on : 2019-09-24
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

<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
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

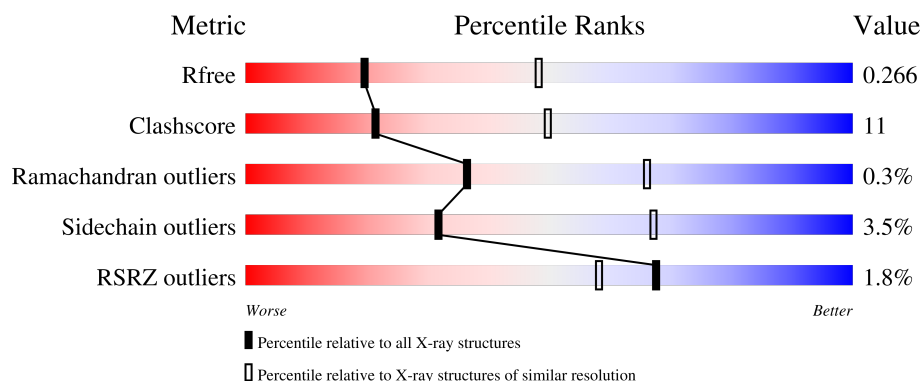
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.80 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}	180053	3866 (2.80-2.80)
Clashscore	190562	4276 (2.80-2.80)
Ramachandran outliers	187476	4196 (2.80-2.80)
Sidechain outliers	187428	4198 (2.80-2.80)
RSRZ outliers	180081	3869 (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 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	AAA	620	 2% 74% 20% • 5%
1	BBB	620	 % 74% 19% • 5%
1	CCC	620	 2% 72% 21% • 5%
1	DDD	620	 2% 74% 20% • 5%

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	ACT	AAA	707	-	-	X	-
2	ACT	BBB	705	-	-	X	-
2	ACT	CCC	702	-	-	X	-
2	ACT	CCC	706	-	-	X	-
2	ACT	DDD	707	-	-	X	-

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 35499 atoms, of which 17134 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 Protein PS1.

Mol	Chain	Residues	Atoms								ZeroOcc	AltConf	Trace
1	AAA	589	Total	C	H	N	O	S	Se		223	0	0
			8777	2850	4264	764	887	2	10				
1	BBB	590	Total	C	H	N	O	S	Se		223	0	0
			8784	2852	4267	765	888	2	10				
1	CCC	589	Total	C	H	N	O	S	Se		223	0	0
			8777	2850	4264	764	887	2	10				
1	DDD	589	Total	C	H	N	O	S	Se		223	0	0
			8777	2850	4264	764	887	2	10				

There are 24 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
AAA	658	HIS	-	expression tag	UNP P0C1D6
AAA	659	HIS	-	expression tag	UNP P0C1D6
AAA	660	HIS	-	expression tag	UNP P0C1D6
AAA	661	HIS	-	expression tag	UNP P0C1D6
AAA	662	HIS	-	expression tag	UNP P0C1D6
AAA	663	HIS	-	expression tag	UNP P0C1D6
BBB	658	HIS	-	expression tag	UNP P0C1D6
BBB	659	HIS	-	expression tag	UNP P0C1D6
BBB	660	HIS	-	expression tag	UNP P0C1D6
BBB	661	HIS	-	expression tag	UNP P0C1D6
BBB	662	HIS	-	expression tag	UNP P0C1D6
BBB	663	HIS	-	expression tag	UNP P0C1D6
CCC	658	HIS	-	expression tag	UNP P0C1D6
CCC	659	HIS	-	expression tag	UNP P0C1D6
CCC	660	HIS	-	expression tag	UNP P0C1D6
CCC	661	HIS	-	expression tag	UNP P0C1D6
CCC	662	HIS	-	expression tag	UNP P0C1D6
CCC	663	HIS	-	expression tag	UNP P0C1D6
DDD	658	HIS	-	expression tag	UNP P0C1D6
DDD	659	HIS	-	expression tag	UNP P0C1D6
DDD	660	HIS	-	expression tag	UNP P0C1D6

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Chain	Residue	Modelled	Actual	Comment	Reference
DDD	661	HIS	-	expression tag	UNP P0C1D6
DDD	662	HIS	-	expression tag	UNP P0C1D6
DDD	663	HIS	-	expression tag	UNP P0C1D6

- Molecule 2 is ACETATE ION (CCD ID: ACT) (formula: $C_2H_3O_2^-$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	AAA	1	Total	C	H	O	0	0
			7	2	3	2		
2	AAA	1	Total	C	H	O	0	0
			7	2	3	2		
2	AAA	1	Total	C	H	O	0	0
			7	2	3	2		
2	AAA	1	Total	C	H	O	0	0
			7	2	3	2		
2	AAA	1	Total	C	H	O	0	0
			7	2	3	2		
2	AAA	1	Total	C	H	O	0	0
			7	2	3	2		
2	BBB	1	Total	C	H	O	0	0
			7	2	3	2		
2	BBB	1	Total	C	H	O	0	0
			7	2	3	2		
2	BBB	1	Total	C	H	O	0	0
			7	2	3	2		

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	BBB	1	Total	C	H	O	0	0
			7	2	3	2		
2	BBB	1	Total	C	H	O	0	0
			7	2	3	2		
2	CCC	1	Total	C	H	O	0	0
			7	2	3	2		
2	CCC	1	Total	C	H	O	0	0
			7	2	3	2		
2	CCC	1	Total	C	H	O	0	0
			7	2	3	2		
2	CCC	1	Total	C	H	O	0	0
			7	2	3	2		
2	CCC	1	Total	C	H	O	0	0
			7	2	3	2		
2	DDD	1	Total	C	H	O	0	0
			7	2	3	2		
2	DDD	1	Total	C	H	O	0	0
			7	2	3	2		
2	DDD	1	Total	C	H	O	0	0
			7	2	3	2		
2	DDD	1	Total	C	H	O	0	0
			7	2	3	2		
2	DDD	1	Total	C	H	O	0	0
			7	2	3	2		
2	DDD	1	Total	C	H	O	0	0
			7	2	3	2		

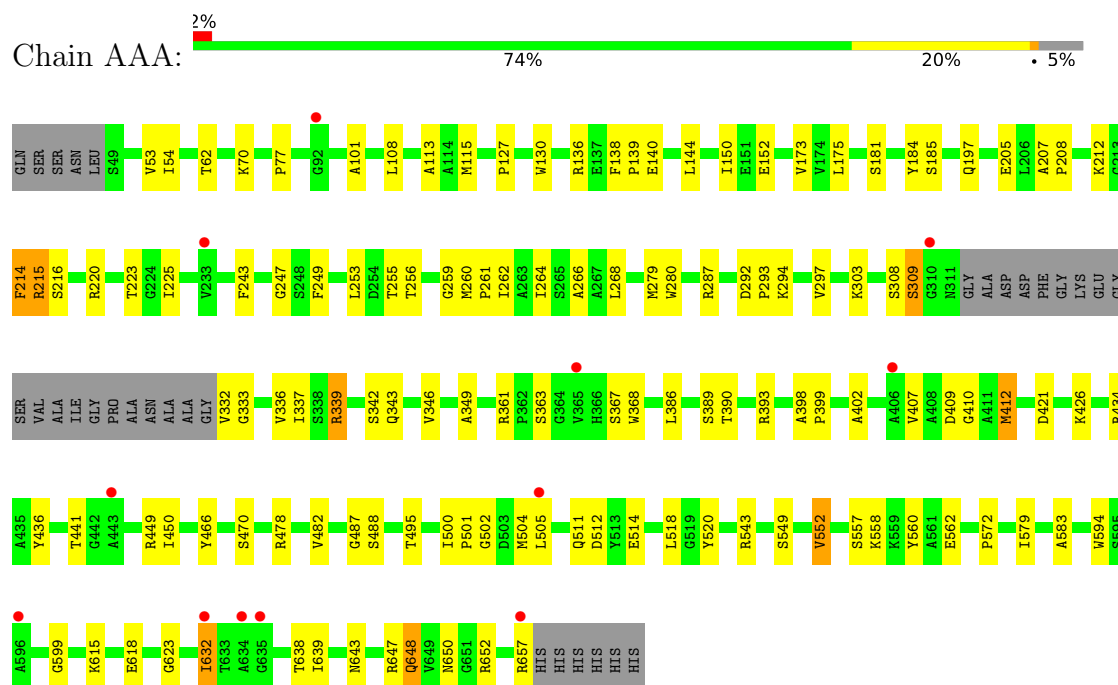
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	AAA	67	Total	O	0	0
			67	67		
3	BBB	53	Total	O	0	0
			53	53		
3	CCC	50	Total	O	0	0
			50	50		
3	DDD	39	Total	O	0	0
			39	39		

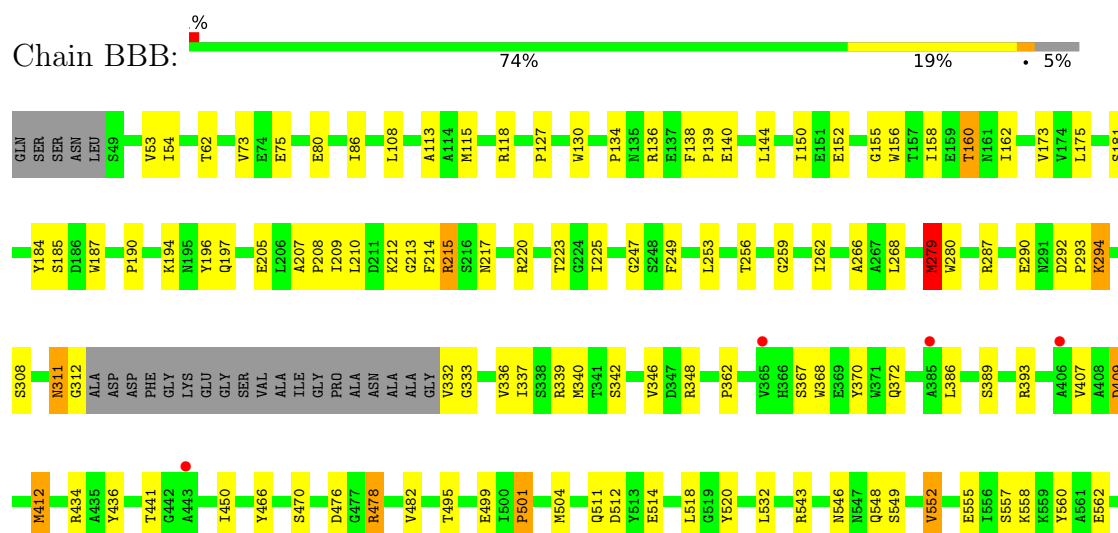
3 Residue-property plots [i](#)

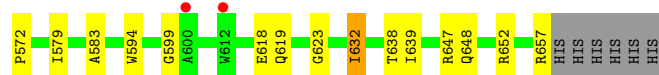
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. 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: Protein PS1

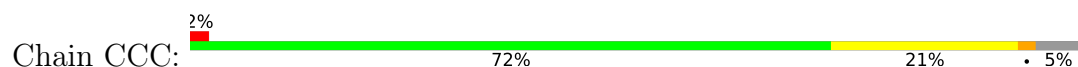


• Molecule 1: Protein PS1

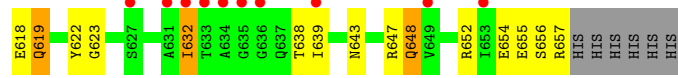
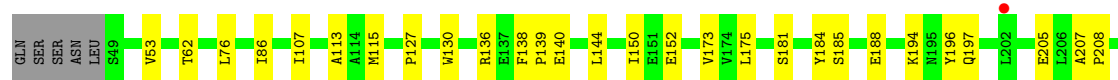
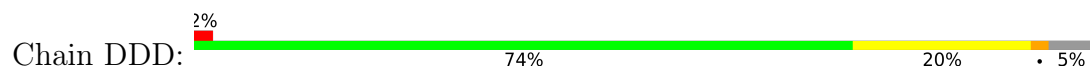




• Molecule 1: Protein PS1



• Molecule 1: Protein PS1



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	65.15Å 170.48Å 241.85Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	48.57 – 2.80 48.57 – 2.80	Depositor EDS
% Data completeness (in resolution range)	99.7 (48.57-2.80) 99.7 (48.57-2.80)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.23 (at 2.81Å)	Xtriage
Refinement program	REFMAC 5.8.0257	Depositor
R, R_{free}	0.242 , 0.262 0.244 , 0.266	Depositor DCC
R_{free} test set	3444 reflections (5.10%)	wwPDB-VP
Wilson B-factor (Å ²)	43.4	Xtriage
Anisotropy	0.806	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.39 , 46.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.45$, $\langle L^2 \rangle = 0.27$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	35499	wwPDB-VP
Average B, all atoms (Å ²)	56.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 34.43 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 6.8338e-04. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

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: ACT

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	AAA	1.02	0/4622	1.41	8/6272 (0.1%)
1	BBB	1.01	0/4626	1.41	6/6277 (0.1%)
1	CCC	1.01	0/4622	1.41	9/6272 (0.1%)
1	DDD	1.02	0/4622	1.41	6/6272 (0.1%)
All	All	1.02	0/18492	1.41	29/25093 (0.1%)

There are no bond length outliers.

The worst 5 of 29 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AAA	214	PHE	CA-C-N	6.47	131.55	122.36
1	AAA	214	PHE	C-N-CA	6.47	131.55	122.36
1	BBB	501	PRO	CA-C-N	6.22	127.02	119.99
1	BBB	501	PRO	C-N-CA	6.22	127.02	119.99
1	CCC	423	THR	CA-C-O	-6.22	114.25	120.90

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	AAA	4513	4264	4254	96	1
1	BBB	4517	4267	4257	105	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	CCC	4513	4264	4254	96	1
1	DDD	4513	4264	4254	91	0
2	AAA	28	21	21	6	0
2	BBB	20	15	15	8	0
2	CCC	24	18	18	6	0
2	DDD	28	21	21	7	0
3	AAA	67	0	0	2	0
3	BBB	53	0	0	4	0
3	CCC	50	0	0	4	0
3	DDD	39	0	0	3	0
All	All	18365	17134	17094	385	1

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 11.

The worst 5 of 385 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:BBB:638:THR:HG22	1:BBB:647:ARG:HG2	1.23	1.10
1:AAA:500:ILE:HB	1:AAA:505:LEU:HD21	1.20	1.10
1:AAA:130:TRP:O	1:AAA:215:ARG:NH1	1.84	1.09
1:BBB:134:PRO:HA	1:BBB:215:ARG:HH12	1.15	1.04
1:AAA:500:ILE:HB	1:AAA:505:LEU:CD2	1.88	1.01

All (1) 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:AAA:650:ASN:HD21	1:CCC:258:ALA:H[2_555]	1.31	0.29

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	AAA	585/620 (94%)	546 (93%)	37 (6%)	2 (0%)	36	66
1	BBB	586/620 (94%)	546 (93%)	38 (6%)	2 (0%)	36	66
1	CCC	585/620 (94%)	543 (93%)	40 (7%)	2 (0%)	36	66
1	DDD	585/620 (94%)	543 (93%)	40 (7%)	2 (0%)	36	66
All	All	2341/2480 (94%)	2178 (93%)	155 (7%)	8 (0%)	36	66

5 of 8 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	AAA	512	ASP
1	BBB	512	ASP
1	CCC	512	ASP
1	CCC	629	GLN
1	DDD	512	ASP

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	AAA	459/470 (98%)	444 (97%)	15 (3%)	33	69
1	BBB	459/470 (98%)	442 (96%)	17 (4%)	30	65
1	CCC	459/470 (98%)	443 (96%)	16 (4%)	32	67
1	DDD	459/470 (98%)	443 (96%)	16 (4%)	32	67
All	All	1836/1880 (98%)	1772 (96%)	64 (4%)	32	67

5 of 64 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	DDD	547	ASN
1	DDD	552	VAL
1	BBB	340	MSE
1	BBB	339	ARG
1	DDD	619	GLN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

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 oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

25 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	ACT	AAA	706	-	3,3,3	1.10	0	3,3,3	0.96	0
2	ACT	CCC	704	-	3,3,3	1.08	0	3,3,3	0.92	0
2	ACT	BBB	701	-	3,3,3	1.12	0	3,3,3	0.77	0
2	ACT	CCC	705	-	3,3,3	1.28	0	3,3,3	0.80	0
2	ACT	BBB	702	-	3,3,3	1.25	0	3,3,3	0.70	0
2	ACT	DDD	706	-	3,3,3	1.26	0	3,3,3	0.74	0
2	ACT	AAA	704	-	3,3,3	1.18	0	3,3,3	0.73	0
2	ACT	AAA	701	-	3,3,3	1.16	0	3,3,3	0.74	0
2	ACT	BBB	703	-	3,3,3	1.18	0	3,3,3	0.73	0
2	ACT	DDD	707	-	3,3,3	0.95	0	3,3,3	0.98	0
2	ACT	CCC	701	-	3,3,3	1.18	0	3,3,3	0.57	0
2	ACT	BBB	704	-	3,3,3	1.11	0	3,3,3	0.79	0
2	ACT	CCC	702	-	3,3,3	1.18	0	3,3,3	1.07	0
2	ACT	AAA	705	-	3,3,3	1.17	0	3,3,3	0.79	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	ACT	DDD	702	-	3,3,3	1.17	0	3,3,3	1.10	0
2	ACT	AAA	707	-	3,3,3	1.40	0	3,3,3	0.54	0
2	ACT	CCC	703	-	3,3,3	1.11	0	3,3,3	0.63	0
2	ACT	DDD	705	-	3,3,3	1.07	0	3,3,3	0.82	0
2	ACT	AAA	702	-	3,3,3	1.28	0	3,3,3	0.90	0
2	ACT	DDD	703	-	3,3,3	1.22	0	3,3,3	0.48	0
2	ACT	BBB	705	-	3,3,3	0.83	0	3,3,3	1.15	0
2	ACT	DDD	701	-	3,3,3	1.14	0	3,3,3	0.71	0
2	ACT	AAA	703	-	3,3,3	1.11	0	3,3,3	0.73	0
2	ACT	DDD	704	-	3,3,3	1.16	0	3,3,3	0.76	0
2	ACT	CCC	706	-	3,3,3	1.17	0	3,3,3	0.48	0

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

12 monomers are involved in 27 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	DDD	706	ACT	1	0
2	BBB	703	ACT	1	0
2	DDD	707	ACT	4	0
2	CCC	702	ACT	2	0
2	AAA	705	ACT	1	0
2	DDD	702	ACT	1	0
2	AAA	707	ACT	4	0
2	CCC	703	ACT	1	0
2	AAA	702	ACT	1	0
2	DDD	703	ACT	1	0
2	BBB	705	ACT	7	0
2	CCC	706	ACT	3	0

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	AAA	579/620 (93%)	0.37	12 (2%) 63 54	30, 51, 73, 109	0
1	BBB	580/620 (93%)	0.39	6 (1%) 79 72	31, 54, 77, 97	0
1	CCC	579/620 (93%)	0.35	10 (1%) 69 60	33, 50, 79, 117	0
1	DDD	579/620 (93%)	0.43	14 (2%) 59 49	32, 54, 100, 133	0
All	All	2317/2480 (93%)	0.39	42 (1%) 67 58	30, 52, 82, 133	0

The worst 5 of 42 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	AAA	505	LEU	4.7
1	DDD	653	ILE	3.8
1	AAA	634	ALA	3.8
1	DDD	635	GLY	3.6
1	CCC	635	GLY	3.4

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 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
2	ACT	AAA	707	4/4	0.43	0.27	52,54,60,75	0
2	ACT	CCC	701	4/4	0.59	0.28	54,54,58,60	0
2	ACT	DDD	706	4/4	0.61	0.22	60,60,60,63	0
2	ACT	CCC	706	4/4	0.66	0.17	46,49,51,57	0
2	ACT	AAA	706	4/4	0.67	0.24	44,45,45,47	0
2	ACT	AAA	701	4/4	0.70	0.22	38,38,39,40	0
2	ACT	DDD	702	4/4	0.71	0.17	41,46,46,46	0
2	ACT	BBB	703	4/4	0.73	0.16	31,34,36,36	0
2	ACT	DDD	701	4/4	0.76	0.23	41,42,44,45	0
2	ACT	DDD	703	4/4	0.78	0.17	40,40,43,46	0
2	ACT	BBB	705	4/4	0.78	0.18	45,49,53,53	0
2	ACT	CCC	702	4/4	0.79	0.15	23,26,26,26	0
2	ACT	DDD	704	4/4	0.80	0.17	48,51,52,53	0
2	ACT	BBB	702	4/4	0.80	0.18	36,37,37,38	0
2	ACT	CCC	704	4/4	0.81	0.16	44,44,47,50	0
2	ACT	AAA	704	4/4	0.82	0.14	45,46,46,46	0
2	ACT	BBB	704	4/4	0.82	0.13	51,53,55,57	0
2	ACT	BBB	701	4/4	0.83	0.16	35,35,36,37	0
2	ACT	DDD	707	4/4	0.83	0.12	38,38,39,40	0
2	ACT	AAA	703	4/4	0.84	0.14	29,30,30,31	0
2	ACT	DDD	705	4/4	0.84	0.14	44,48,48,48	0
2	ACT	CCC	703	4/4	0.86	0.15	38,38,40,43	0
2	ACT	AAA	702	4/4	0.87	0.11	30,32,32,32	0
2	ACT	AAA	705	4/4	0.88	0.12	41,42,44,44	0
2	ACT	CCC	705	4/4	0.88	0.15	40,44,44,44	0

6.5 Other polymers

There are no such residues in this entry.