



wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 5, 2026 – 04:52 PM UTC

PDB ID : 1U0W / pdb_00001u0w
Title : An Aldol Switch Discovered in Stilbene Synthases Mediates Cyclization Specificity of Type III Polyketide Synthases: 18xCHS+resveratrol Structure
Authors : Austin, M.B.; Bowman, M.E.; Ferrer, J.-L.; Schroder, J.; Noel, J.P.
Deposited on : 2004-07-14
Resolution : 2.00 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

<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

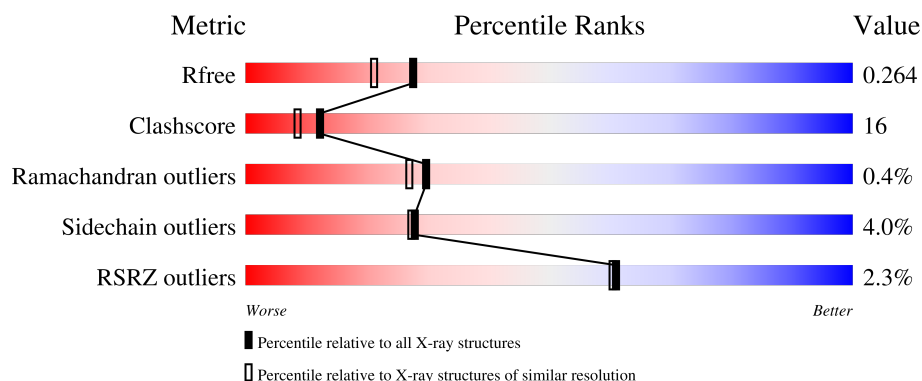
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.00 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	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	10052 (2.00-2.00)
Clashscore	190562	11152 (2.00-2.00)
Ramachandran outliers	187476	11031 (2.00-2.00)
Sidechain outliers	187428	11029 (2.00-2.00)
RSRZ outliers	180081	10067 (2.00-2.00)

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 of the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	393	3% 66%29%..
1	B	393	2% 71%25%..
1	C	393	2% 72%25%..
1	D	393	2% 61%35%..

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 13154 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 Chalcone synthase 2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	388	Total	C	N	O	S	0	0	0
			2974	1892	505	560	17			
1	B	388	Total	C	N	O	S	0	0	0
			2974	1892	505	560	17			
1	C	388	Total	C	N	O	S	0	0	0
			2974	1892	505	560	17			
1	D	388	Total	C	N	O	S	0	0	0
			2974	1892	505	560	17			

There are 88 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-3	GLY	-	cloning artifact	UNP P30074
A	-2	SER	-	cloning artifact	UNP P30074
A	-1	HIS	-	cloning artifact	UNP P30074
A	0	GLY	-	cloning artifact	UNP P30074
A	96	ALA	ASP	engineered mutation	UNP P30074
A	98	LEU	VAL	engineered mutation	UNP P30074
A	99	ALA	VAL	engineered mutation	UNP P30074
A	100	MET	VAL	engineered mutation	UNP P30074
A	131	SER	THR	engineered mutation	UNP P30074
A	133	THR	SER	engineered mutation	UNP P30074
A	134	THR	GLY	engineered mutation	UNP P30074
A	135	PRO	VAL	engineered mutation	UNP P30074
A	137	LEU	MET	engineered mutation	UNP P30074
A	157	VAL	TYR	engineered mutation	UNP P30074
A	158	GLY	MET	engineered mutation	UNP P30074
A	159	VAL	MET	engineered mutation	UNP P30074
A	160	PHE	TYR	engineered mutation	UNP P30074
A	162	HIS	GLN	engineered mutation	UNP P30074
A	268	LYS	LEU	engineered mutation	UNP P30074
A	269	GLY	LYS	engineered mutation	UNP P30074
A	270	ALA	ASP	engineered mutation	UNP P30074

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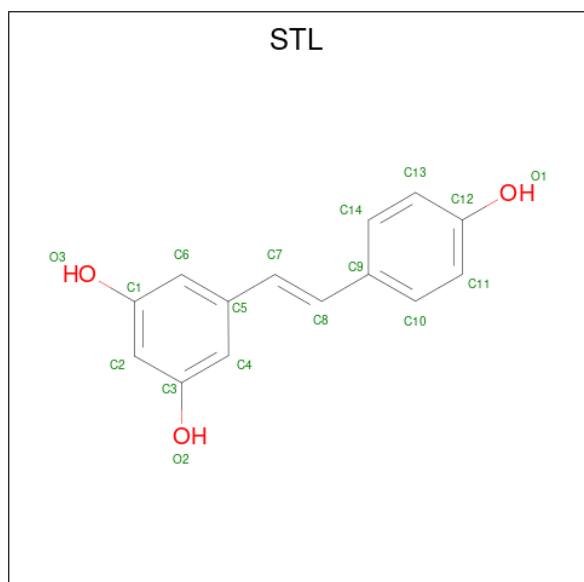
Chain	Residue	Modelled	Actual	Comment	Reference
A	273	ASP	GLY	engineered mutation	UNP P30074
B	-3	GLY	-	cloning artifact	UNP P30074
B	-2	SER	-	cloning artifact	UNP P30074
B	-1	HIS	-	cloning artifact	UNP P30074
B	0	GLY	-	cloning artifact	UNP P30074
B	96	ALA	ASP	engineered mutation	UNP P30074
B	98	LEU	VAL	engineered mutation	UNP P30074
B	99	ALA	VAL	engineered mutation	UNP P30074
B	100	MET	VAL	engineered mutation	UNP P30074
B	131	SER	THR	engineered mutation	UNP P30074
B	133	THR	SER	engineered mutation	UNP P30074
B	134	THR	GLY	engineered mutation	UNP P30074
B	135	PRO	VAL	engineered mutation	UNP P30074
B	137	LEU	MET	engineered mutation	UNP P30074
B	157	VAL	TYR	engineered mutation	UNP P30074
B	158	GLY	MET	engineered mutation	UNP P30074
B	159	VAL	MET	engineered mutation	UNP P30074
B	160	PHE	TYR	engineered mutation	UNP P30074
B	162	HIS	GLN	engineered mutation	UNP P30074
B	268	LYS	LEU	engineered mutation	UNP P30074
B	269	GLY	LYS	engineered mutation	UNP P30074
B	270	ALA	ASP	engineered mutation	UNP P30074
B	273	ASP	GLY	engineered mutation	UNP P30074
C	-3	GLY	-	cloning artifact	UNP P30074
C	-2	SER	-	cloning artifact	UNP P30074
C	-1	HIS	-	cloning artifact	UNP P30074
C	0	GLY	-	cloning artifact	UNP P30074
C	96	ALA	ASP	engineered mutation	UNP P30074
C	98	LEU	VAL	engineered mutation	UNP P30074
C	99	ALA	VAL	engineered mutation	UNP P30074
C	100	MET	VAL	engineered mutation	UNP P30074
C	131	SER	THR	engineered mutation	UNP P30074
C	133	THR	SER	engineered mutation	UNP P30074
C	134	THR	GLY	engineered mutation	UNP P30074
C	135	PRO	VAL	engineered mutation	UNP P30074
C	137	LEU	MET	engineered mutation	UNP P30074
C	157	VAL	TYR	engineered mutation	UNP P30074
C	158	GLY	MET	engineered mutation	UNP P30074
C	159	VAL	MET	engineered mutation	UNP P30074
C	160	PHE	TYR	engineered mutation	UNP P30074
C	162	HIS	GLN	engineered mutation	UNP P30074
C	268	LYS	LEU	engineered mutation	UNP P30074

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Chain	Residue	Modelled	Actual	Comment	Reference
C	269	GLY	LYS	engineered mutation	UNP P30074
C	270	ALA	ASP	engineered mutation	UNP P30074
C	273	ASP	GLY	engineered mutation	UNP P30074
D	-3	GLY	-	cloning artifact	UNP P30074
D	-2	SER	-	cloning artifact	UNP P30074
D	-1	HIS	-	cloning artifact	UNP P30074
D	0	GLY	-	cloning artifact	UNP P30074
D	96	ALA	ASP	engineered mutation	UNP P30074
D	98	LEU	VAL	engineered mutation	UNP P30074
D	99	ALA	VAL	engineered mutation	UNP P30074
D	100	MET	VAL	engineered mutation	UNP P30074
D	131	SER	THR	engineered mutation	UNP P30074
D	133	THR	SER	engineered mutation	UNP P30074
D	134	THR	GLY	engineered mutation	UNP P30074
D	135	PRO	VAL	engineered mutation	UNP P30074
D	137	LEU	MET	engineered mutation	UNP P30074
D	157	VAL	TYR	engineered mutation	UNP P30074
D	158	GLY	MET	engineered mutation	UNP P30074
D	159	VAL	MET	engineered mutation	UNP P30074
D	160	PHE	TYR	engineered mutation	UNP P30074
D	162	HIS	GLN	engineered mutation	UNP P30074
D	268	LYS	LEU	engineered mutation	UNP P30074
D	269	GLY	LYS	engineered mutation	UNP P30074
D	270	ALA	ASP	engineered mutation	UNP P30074
D	273	ASP	GLY	engineered mutation	UNP P30074

- Molecule 2 is RESVERATROL (CCD ID: STL) (formula: C₁₄H₁₂O₃).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total	C	O	0	0
			17	14	3		
2	B	1	Total	C	O	0	0
			17	14	3		
2	C	1	Total	C	O	0	0
			17	14	3		
2	D	1	Total	C	O	0	0
			17	14	3		

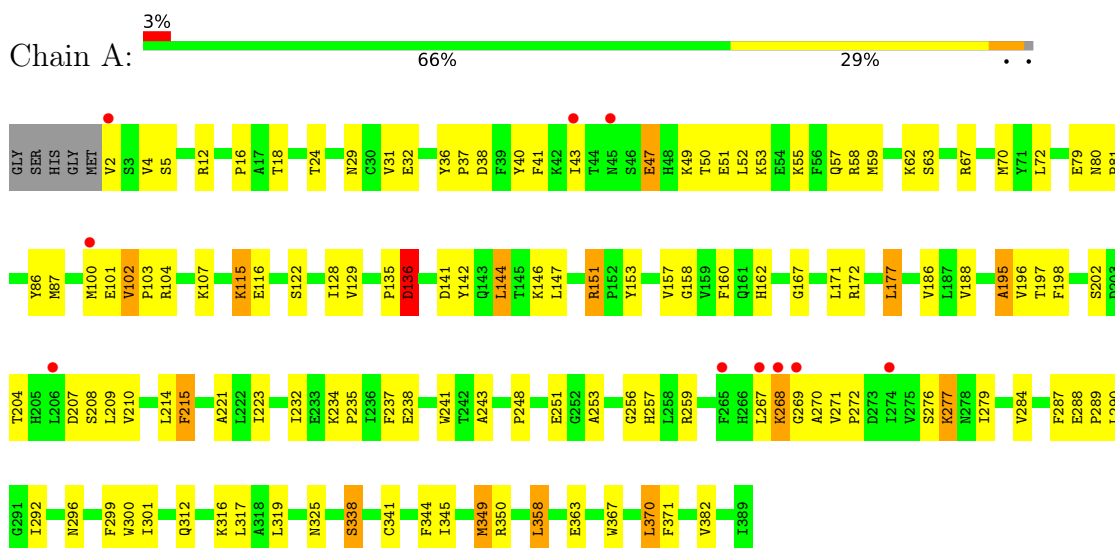
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	275	Total	O	0	0
			275	275		
3	B	310	Total	O	0	0
			310	310		
3	C	315	Total	O	0	0
			315	315		
3	D	290	Total	O	0	0
			290	290		

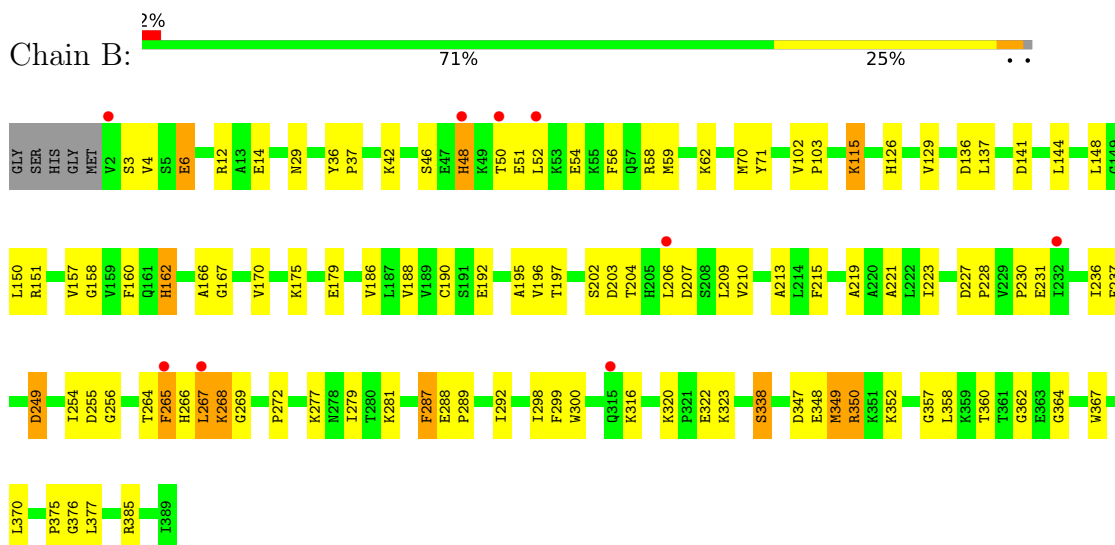
3 Residue-property plots [i](#)

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: Chalcone synthase 2

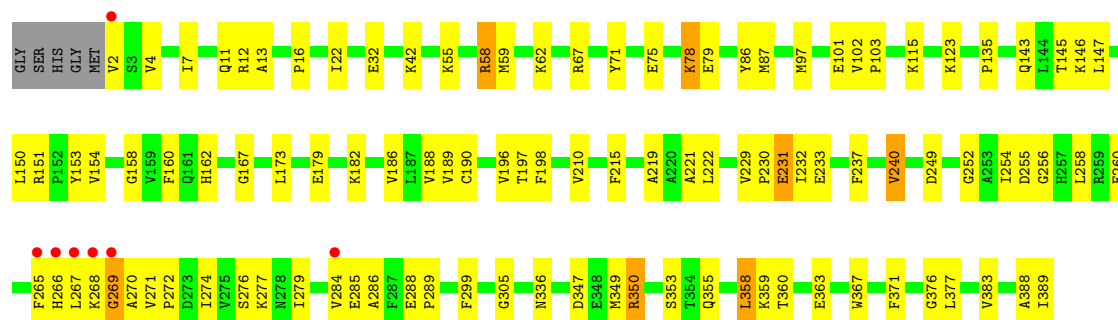


• Molecule 1: Chalcone synthase 2

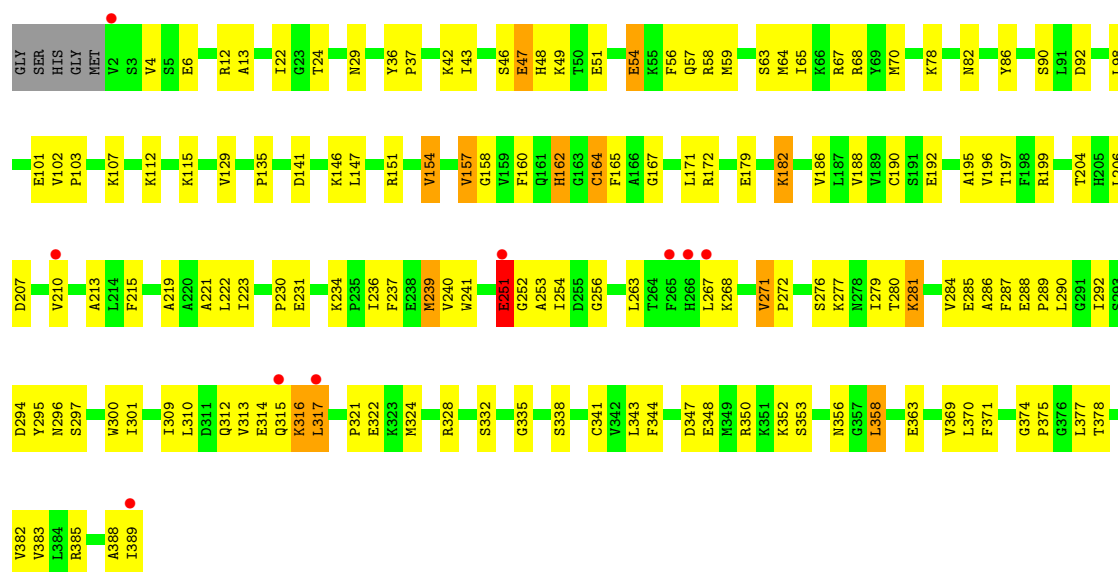


• Molecule 1: Chalcone synthase 2





● Molecule 1: Chalcone synthase 2



4 Data and refinement statistics

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	64.33Å 71.72Å 85.75Å 111.39° 91.61° 90.07°	Depositor
Resolution (Å)	49.34 – 2.00 49.34 – 2.00	Depositor EDS
% Data completeness (in resolution range)	97.0 (49.34-2.00) 97.1 (49.34-2.00)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.38 (at 2.00Å)	Xtriage
Refinement program	CNS 1.0	Depositor
R, R_{free}	0.203 , 0.264 0.203 , 0.264	Depositor DCC
R_{free} test set	4706 reflections (5.06%)	wwPDB-VP
Wilson B-factor (Å ²)	23.8	Xtriage
Anisotropy	0.725	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 47.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	0.119 for h,-k,-l	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	13154	wwPDB-VP
Average B, all atoms (Å ²)	31.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 15.43% 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: STL

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	0.61	2/3032 (0.1%)	1.04	18/4106 (0.4%)
1	B	0.61	1/3032 (0.0%)	1.02	12/4106 (0.3%)
1	C	0.61	1/3032 (0.0%)	1.03	9/4106 (0.2%)
1	D	0.60	1/3032 (0.0%)	1.05	18/4106 (0.4%)
All	All	0.61	5/12128 (0.0%)	1.04	57/16424 (0.3%)

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	102	VAL	CA-CB	5.84	1.57	1.54
1	A	349	MET	SD-CE	-5.37	1.66	1.79
1	B	349	MET	SD-CE	-5.37	1.66	1.79
1	D	239	MET	SD-CE	-5.35	1.66	1.79
1	C	97	MET	SD-CE	5.29	1.92	1.79

The worst 5 of 57 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	101	GLU	N-CA-C	8.68	120.82	111.36
1	C	167	GLY	N-CA-C	-8.23	102.85	112.73
1	D	162	HIS	N-CA-C	-8.02	103.10	113.12
1	D	296	ASN	N-CA-C	-7.80	103.78	113.38
1	B	162	HIS	N-CA-C	-6.89	103.52	112.68

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts

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	2974	0	3021	103	0
1	B	2974	0	3021	95	0
1	C	2974	0	3021	86	0
1	D	2974	0	3021	119	0
2	A	17	0	10	2	0
2	B	17	0	10	1	0
2	C	17	0	9	1	0
2	D	17	0	9	2	0
3	A	275	0	0	17	0
3	B	310	0	0	16	0
3	C	315	0	0	9	0
3	D	290	0	0	12	0
All	All	13154	0	12122	374	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 16.

The worst 5 of 374 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:D:171:LEU:HB3	1:D:239:MET:HE1	1.30	1.11
1:B:349:MET:HE3	1:B:362:GLY:HA2	1.32	1.10
1:B:58:ARG:HG2	1:B:62:LYS:HE2	1.51	0.91
1:A:284:VAL:HG13	1:A:288:GLU:HG3	1.55	0.88
1:B:299:PHE:CD2	1:B:349:MET:HE1	2.09	0.86

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	386/393 (98%)	362 (94%)	21 (5%)	3 (1%)	16	11
1	B	386/393 (98%)	369 (96%)	17 (4%)	0	100	100
1	C	386/393 (98%)	370 (96%)	15 (4%)	1 (0%)	36	35
1	D	386/393 (98%)	372 (96%)	12 (3%)	2 (0%)	24	21
All	All	1544/1572 (98%)	1473 (95%)	65 (4%)	6 (0%)	30	27

5 of 6 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	269	GLY
1	D	251	GLU
1	A	50	THR
1	C	269	GLY
1	D	252	GLY

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	321/324 (99%)	310 (97%)	11 (3%)	32	33
1	B	321/324 (99%)	309 (96%)	12 (4%)	30	30
1	C	321/324 (99%)	310 (97%)	11 (3%)	32	33
1	D	321/324 (99%)	304 (95%)	17 (5%)	20	18
All	All	1284/1296 (99%)	1233 (96%)	51 (4%)	28	27

5 of 51 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	C	146	LYS
1	D	43	ILE
1	D	322	GLU

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Mol	Chain	Res	Type
1	C	210	VAL
1	C	355	GLN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 17 such sidechains are listed below:

Mol	Chain	Res	Type
1	D	315	GLN
1	D	355	GLN
1	B	355	GLN
1	C	162	HIS
1	C	312	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](#)

4 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	STL	A	2000	-	18,18,18	1.86	10 (55%)	24,24,24	1.20	3 (12%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	STL	B	2001	-	18,18,18	1.71	5 (27%)	24,24,24	1.06	1 (4%)
2	STL	D	2003	-	18,18,18	1.71	7 (38%)	24,24,24	1.06	2 (8%)
2	STL	C	2002	-	18,18,18	1.71	4 (22%)	24,24,24	1.08	2 (8%)

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	STL	A	2000	-	-	0/5/5/5	0/2/2/2
2	STL	B	2001	-	-	0/5/5/5	0/2/2/2
2	STL	D	2003	-	-	0/5/5/5	0/2/2/2
2	STL	C	2002	-	-	0/5/5/5	0/2/2/2

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

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	2002	STL	C11-C10	3.05	1.43	1.38
2	C	2002	STL	C11-C12	2.74	1.44	1.39
2	D	2003	STL	C10-C9	2.69	1.44	1.39
2	A	2000	STL	C4-C3	2.57	1.43	1.39
2	C	2002	STL	C6-C1	2.53	1.42	1.39

The worst 5 of 8 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	2000	STL	C5-C4-C3	2.40	122.28	120.26
2	D	2003	STL	C3-C2-C1	2.33	122.14	119.26
2	A	2000	STL	C3-C2-C1	2.33	122.13	119.26
2	C	2002	STL	C3-C2-C1	2.29	122.08	119.26
2	B	2001	STL	C3-C2-C1	2.24	122.03	119.26

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

4 monomers are involved in 6 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	2000	STL	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	2001	STL	1	0
2	D	2003	STL	2	0
2	C	2002	STL	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	388/393 (98%)	0.04	10 (2%) 57 56	15, 27, 53, 65	0
1	B	388/393 (98%)	0.04	9 (2%) 61 60	14, 27, 50, 61	0
1	C	388/393 (98%)	0.03	7 (1%) 67 67	15, 28, 45, 61	0
1	D	388/393 (98%)	0.04	9 (2%) 61 60	16, 28, 47, 61	0
All	All	1552/1572 (98%)	0.04	35 (2%) 61 60	14, 28, 49, 65	0

The worst 5 of 35 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	265	PHE	4.4
1	A	269	GLY	3.7
1	B	267	LEU	3.6
1	C	265	PHE	3.6
1	C	267	LEU	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	STL	A	2000	17/17	0.87	0.11	32,34,43,45	0
2	STL	C	2002	17/17	0.87	0.10	22,29,41,49	0
2	STL	D	2003	17/17	0.88	0.12	24,32,49,53	0
2	STL	B	2001	17/17	0.89	0.10	22,30,47,52	0

6.5 Other polymers [i](#)

There are no such residues in this entry.