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)

Feb 4, 2024 – 10:59 PM EST

PDB ID	:	1SJC
Title	:	x-ray structure of o-succinylbenzoate synthase complexed with N-succinyl me-thionine
Authors	:	Thoden, J.B.; Taylor-Ringia, E.A.; Garrett, J.B.; Gerlt, J.A.; Holden, H.M.; Rayment, I.
Deposited on	:	2004-03-03
Resolution	:	2.10 Å(reported)

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

|		
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.36
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.36

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 2.10 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.
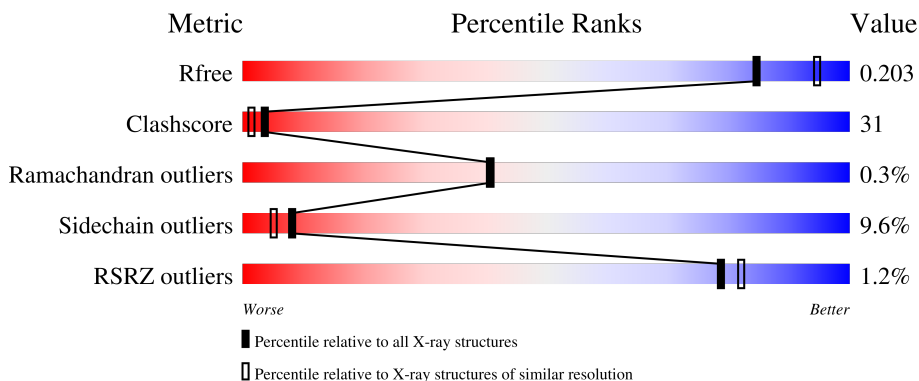
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	5197 (2.10-2.10)
Clashscore	141614	5710 (2.10-2.10)
Ramachandran outliers	138981	5647 (2.10-2.10)
Sidechain outliers	138945	5648 (2.10-2.10)
RSRZ outliers	127900	5083 (2.10-2.10)

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 <=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	368	52% 38% 9% •
1	B	368	56% 35% 8% •
1	C	368	56% 34% 9% •
1	D	368	41% 44% 14% •

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
3	SMG	A	1000	-	-	X	-
3	SMG	B	1100	-	-	X	-
3	SMG	C	1200	-	-	X	-
3	SMG	D	1300	-	-	X	-

2 Entry composition ⓘ

There are 4 unique types of molecules in this entry. The entry contains 12098 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called N-acylamino acid racemase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	367	Total 2795	C 1776	N 490	O 517	S 12	0	5	0
1	B	368	Total 2786	C 1769	N 481	O 524	S 12	0	3	0
1	C	367	Total 2775	C 1764	N 480	O 519	S 12	0	2	0
1	D	368	Total 2779	C 1765	N 484	O 518	S 12	0	1	0

- Molecule 2 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	1	Total 1	Mg 1	0	0
2	B	1	Total 1	Mg 1	0	0
2	C	1	Total 1	Mg 1	0	0
2	D	1	Total 1	Mg 1	0	0

- Molecule 3 is N-SUCCINYL METHIONINE (three-letter code: SMG) (formula: $C_9H_{15}NO_5S$).
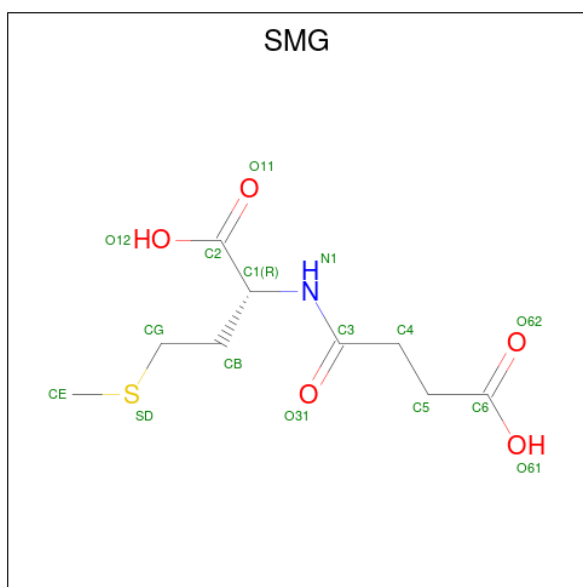
SMG

O11

O12 HO — C2

O11 O (C1(R))

N1 H N

C3 C4 O62 O

CG CB

CE — S SD

O31 C5 C6 OH O61

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	A	1	Total	C	N	O	S	0	0
			16	9	1	5	1		
3	B	1	Total	C	N	O	S	0	0
			16	9	1	5	1		
3	C	1	Total	C	N	O	S	0	0
			16	9	1	5	1		
3	D	1	Total	C	N	O	S	0	0
			16	9	1	5	1		

- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	216	Total	O	0	0
			216	216		
4	B	295	Total	O	0	0
			295	295		
4	C	237	Total	O	0	0
			237	237		
4	D	147	Total	O	0	0
			147	147		

W O R L D W I D E
PDB
PROTEIN DATA BANK

3 Residue-property plots ⓘ

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 f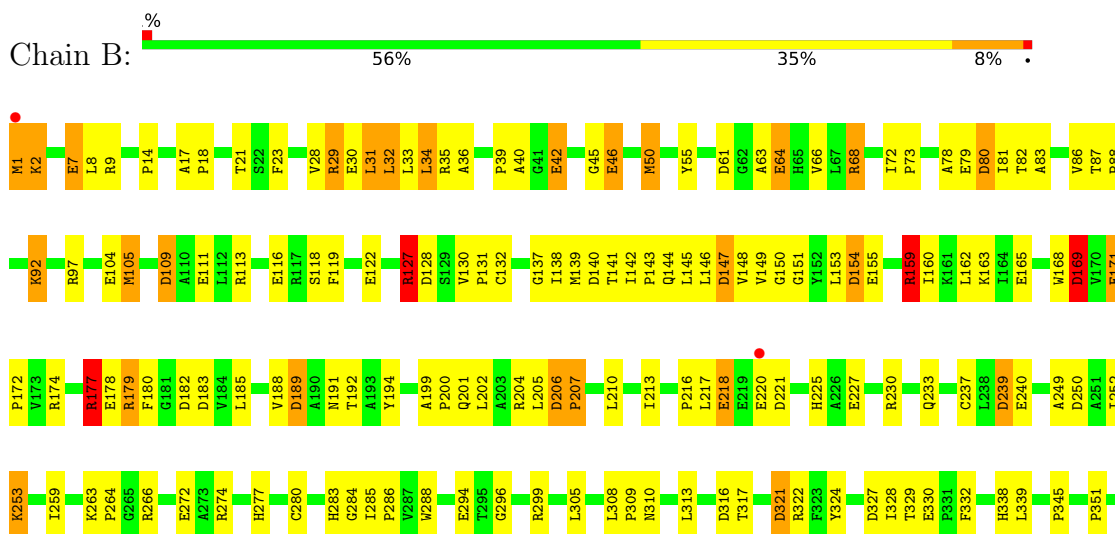or which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red dot above a residue indicates a poor fit to the electron density (RSRZ > 2). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

• Molecule 1: N-acylamino acid racemase

Chain A:

• Molecule 1: N-acylamino acid racemase

Chain B:

L355 L356 D357 E358 K363 S368

• Molecule 1: N-acylamino acid racemase

Chain C:

2%

56% 34% 9% •

M1 E7 L8 R9 R10 M13 P14 Q26 R29 E30 L31 L32 L33 L34 T38 P39 E46 T49 M50 E58 D61 G62 A63 E64 R68 I72 P73 A74 L75 E79 D80 I81 T82 K85 V86 T87 P88 G95 H96 R97 M98 A99 K100 L103
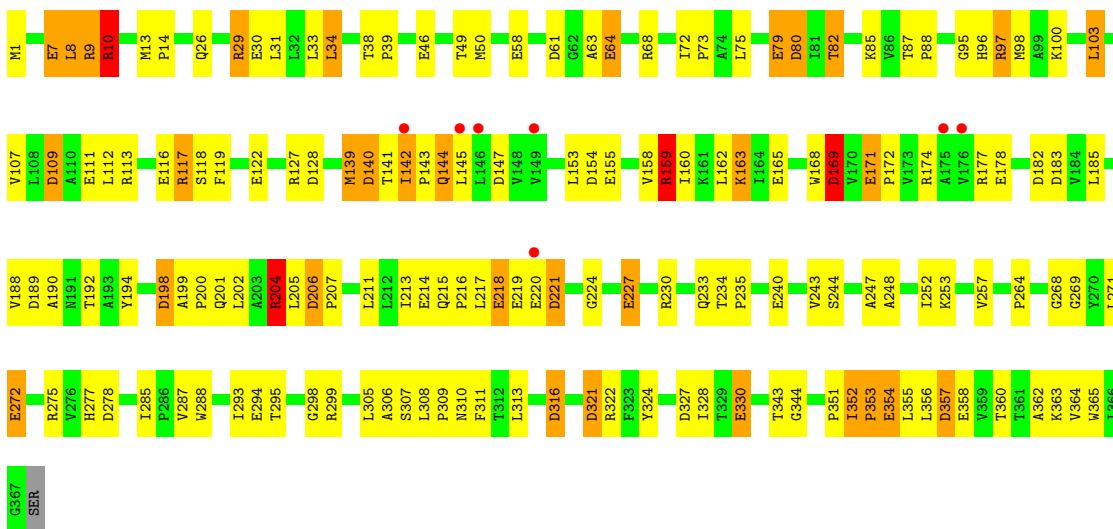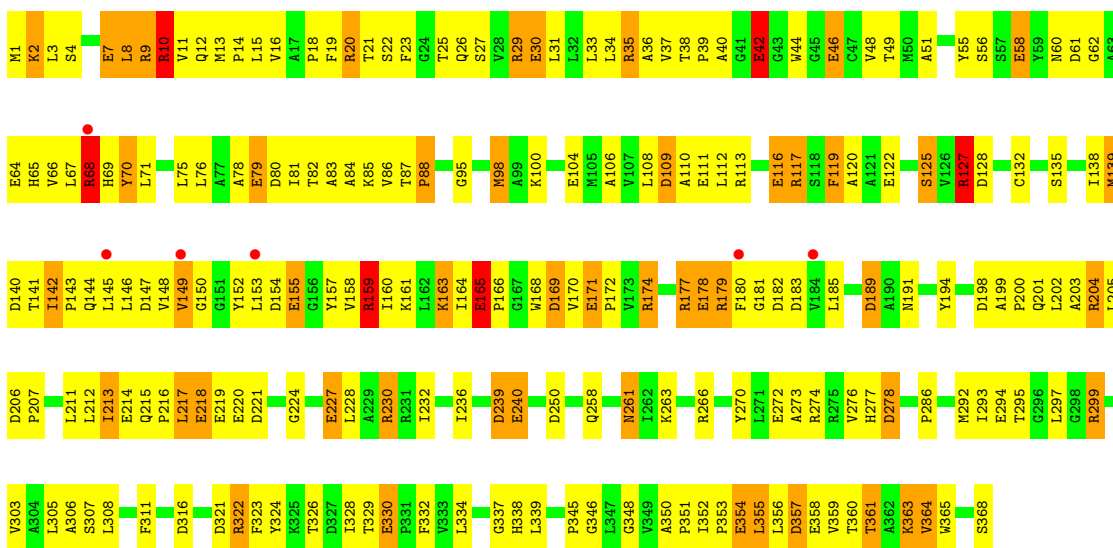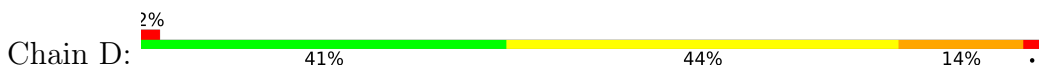
V107 L108 D109 A110 E111 L112 R113 E116 R117 S118 F119 E122 R127 D128 M139 D140 T141 I142 P143 Q144 L145 L146 D147 V148 V149 L153 D154 E155 V158 R159 I160 K161 L162 K163 I164 E165 W168 D169 V170 E171 P172 V173 R174 A175 V176 R177 E178 D182 D183 V184 L185

V188 D189 A190 N191 T192 A193 Y194 D198 A199 P200 Q201 L202 A203 A204 L205 D206 P207 L211 L212 I213 E214 Q215 P216 L217 E218 E219 E220 D221 G224 E227 R230 Q233 T234 P235 E240 V243 S244 A247 A248 I252 K253 V257 P264 G268 C269 Y270 L271

E272 R275 V276 H277 D278 I285 P286 V287 W288 I293 E294 T295 G298 R299 L305 A306 S307 L308 P309 N310 F311 T312 L313 D316 D321 R322 F323 Y324 D327 I328 T329 E330 T343 G344 P351 I352 P353 E354 L355 L356 D357 E358 V359 T360 T361 A362 K363 V364 W365 I366

G367 SER.

• Molecule 1: N-acylamino acid racemase

Chain D:

2%

41% 44% 14% •

M1 K2 L3 S4 E7 L8 R9 R10 V11 Q12 M13 P14 L15 V16 A17 P18 F19 R20 T21 S22 F23 G24 T25 Q26 S27 V28 R29 E30 L31 L32 L33 L34 R35 A36 V37 T38 P39 A40 G41 E42 G43 W44 G45 E46 C47 V48 T49 M50 A51 Y55 S56 S57 E58 Y59 N60 D61 G62 A63

E64 H65 V66 L67 R68 H69 Y70 L71 L75 L76 A77 A78 E79 D80 I81 T82 A83 A84 K85 V86 T87 P88 G95 M98 A99 K100 E104 M105 A106 V107 L108 D109 A110 E111 L112 R113 E116 R117 S118 F119 A120 A121 E122 S125 V126 R127 D128 C132 S135 I138 M139

D140 T141 I142 P143 Q144 L145 L146 D147 V148 V149 G150 G151 Y152 L153 D154 E155 G156 Y157 V158 R159 I160 K161 L162 K163 I164 E165 P166 G167 W168 D169 V170 E171 P172 V173 R174 R177 E178 R179 F180 G181 D182 D183 V184 L185 D189 A190 N191 Y194 D198 A199 P200 Q201 L202 A203 R204 L205

D206 P207 L211 L212 I213 E214 Q215 P216 L217 E218 E219 E220 D221 G224 E227 L228 A229 R230 R231 I232 I236 D239 E240 D250 Q258 N261 I262 K263 R266 Y270 L271 E272 A273 R274 R275 V276 H277 D278 P286 M292 I293 E294 T295 G296 L297 G298 R299

V303 A304 L305 A306 S307 L308 F311 D316 D321 R322 F323 Y324 K325 T326 D327 I328 T329 E330 P331 F332 V333 L334 G337 H338 L339 P345 G346 L347 G348 V349 A350 P351 I352 P353 E354 L355 L356 D357 E358 V359 T360 T361 A362 K363 V364 W365 S368

4 Data and refinement statistics ⓘ

Property	Value	Source
Space group	H 3 2	Depositor
Cell constants a, b, c, α, β, γ	215.70Å 215.70Å 259.00Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	20.00 – 2.10 49.92 – 2.00	Depositor EDS
% Data completeness (in resolution range)	99.6 (20.00-2.10) 99.6 (49.92-2.00)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.08	Depositor
$< I/\sigma(I) >$ [1]	0.83 (at 2.00Å)	Xtriage
Refinement program	TNT	Depositor
R, R_{free}	0.208 , 0.274 0.203 , 0.203	Depositor DCC
R_{free} test set	15319 reflections (9.93%)	wwPDB-VP
Wilson B-factor (Å^2)	32.7	Xtriage
Anisotropy	0.018	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.32 , 126.2	EDS
L-test for twinning[2]	$< |L| > = 0.50, < L^2 > = 0.34$	Xtriage
Estimated twinning fraction	0.015 for -2/3*h-1/3*k+2/3*l,-1/3*h-2/3*k-2/3*l,2/3*h-2/3*k+1/3*l 0.010 for -h,1/3*h-1/3*k+2/3*l,2/3*h+4/3*k+1/3*l 0.004 for -1/3*h+1/3*k-2/3*l,-k,-4/3*h-2/3*k+1/3*l	Xtriage
F_o,F_c correlation	0.96	EDS
Total number of atoms	12098	wwPDB-VP
Average B, all atoms (Å^2)	53.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.37% of the height of the origin peak. No significant pseudotranslation is detected.*

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[1]Intensities estimated from amplitudes.

[2]Theoretical values of $< |L| >$, $< L^2 >$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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

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	1.02	20/2871 (0.7%)	1.50	57/3906 (1.5%)
1	B	1.05	22/2854 (0.8%)	1.48	48/3885 (1.2%)
1	C	1.08	25/2839 (0.9%)	1.42	42/3866 (1.1%)
1	D	1.05	23/2839 (0.8%)	1.48	51/3864 (1.3%)
All	All	1.05	90/11403 (0.8%)	1.47	198/15521 (1.3%)

The worst 5 of 90 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	116	GLU	CD-OE2	9.55	1.36	1.25
1	C	220[A]	GLU	CD-OE2	8.58	1.35	1.25
1	C	220[B]	GLU	CD-OE2	8.58	1.35	1.25
1	B	220[A]	GLU	CD-OE2	8.40	1.34	1.25
1	B	220[B]	GLU	CD-OE2	8.40	1.34	1.25

The worst 5 of 198 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	159	ARG	NE-CZ-NH2	-11.46	114.57	120.30
1	A	274[A]	ARG	NE-CZ-NH2	-11.33	114.64	120.30
1	A	274[B]	ARG	NE-CZ-NH2	-11.33	114.64	120.30
1	A	274[A]	ARG	NE-CZ-NH1	10.96	125.78	120.30
1	A	274[B]	ARG	NE-CZ-NH1	10.96	125.78	120.30

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	2795	0	2841	176	1
1	B	2786	0	2814	129	0
1	C	2775	0	2809	160	0
1	D	2779	0	2819	243	1
2	A	1	0	0	0	0
2	B	1	0	0	0	0
2	C	1	0	0	0	0
2	D	1	0	0	0	0
3	A	16	0	13	8	0
3	B	16	0	13	8	0
3	C	16	0	13	11	0
3	D	16	0	13	12	0
4	A	216	0	0	11	0
4	B	295	0	0	4	0
4	C	237	0	0	11	0
4	D	147	0	0	15	0
All	All	12098	0	11335	708	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 31.

The worst 5 of 708 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:46:GLU:H	1:B:105:MET:CE	1.52	1.21
1:A:144:GLN:O	1:A:148:VAL:HG23	1.47	1.12
1:C:10:ARG:HD3	1:C:362:ALA:HB3	1.17	1.08
1:D:141:THR:HG22	1:D:143:PRO:HD2	1.30	1.06
1:D:38:THR:HB	1:D:39:PRO:HD2	1.31	1.05

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:A:274[A]:ARG:NH2	1:D:278:ASP:OD2[17_555]	1.80	0.40

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	370/368 (100%)	348 (94%)	22 (6%)	0	100	100
1	B	369/368 (100%)	353 (96%)	16 (4%)	0	100	100
1	C	367/368 (100%)	345 (94%)	21 (6%)	1 (0%)	41	41
1	D	367/368 (100%)	326 (89%)	37 (10%)	4 (1%)	14	9
All	All	1473/1472 (100%)	1372 (93%)	96 (6%)	5 (0%)	41	41

All (5) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	D	40	ALA
1	D	306	ALA
1	D	149	VAL
1	D	142	ILE
1	C	353	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	295/291 (101%)	267 (90%)	28 (10%)	8	5

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	B	294/291 (101%)	269 (92%)	25 (8%)	10	7
1	C	292/291 (100%)	269 (92%)	23 (8%)	12	9
1	D	292/291 (100%)	254 (87%)	38 (13%)	4	2
All	All	1173/1164 (101%)	1059 (90%)	114 (10%)	8	5

5 of 114 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	C	29	ARG
1	D	361	THR
1	C	204	ARG
1	D	355	LEU
1	D	159	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 9 such sidechains are listed below:

Mol	Chain	Res	Type
1	D	115	HIS
1	D	258	GLN
1	B	69	HIS
1	B	233	GLN
1	C	26	GLN

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 monosaccharides in this entry.

5.6 Ligand geometry (i)

Of 8 ligands modelled in this entry, 4 are monoatomic - leaving 4 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	#$|Z| > 2$	Counts	RMSZ	#$|Z| > 2$
3	SMG	D	1300	2	15,15,15	1.18	1 (6%)	18,18,18	2.13	3 (16%)
3	SMG	B	1100	2	15,15,15	1.11	1 (6%)	18,18,18	1.76	4 (22%)
3	SMG	C	1200	2	15,15,15	1.17	1 (6%)	18,18,18	2.51	6 (33%)
3	SMG	A	1000	2	15,15,15	1.12	1 (6%)	18,18,18	1.62	3 (16%)

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
3	SMG	D	1300	2	-	6/17/17/17	-
3	SMG	B	1100	2	-	4/17/17/17	-
3	SMG	C	1200	2	-	4/17/17/17	-
3	SMG	A	1000	2	-	6/17/17/17	-

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	1200	SMG	C4-C3	-3.07	1.45	1.51
3	D	1300	SMG	C4-C3	-2.99	1.45	1.51
3	A	1000	SMG	C4-C3	-2.80	1.46	1.51
3	B	1100	SMG	C4-C3	-2.79	1.46	1.51

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

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	1200	SMG	CB-C1-N1	-7.25	96.21	110.88
3	D	1300	SMG	CB-C1-N1	-6.81	97.10	110.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	C	1200	SMG	C4-C5-C6	-4.50	103.92	113.60
3	A	1000	SMG	CE-SD-CG	4.17	114.72	100.40
3	B	1100	SMG	C4-C3-N1	4.03	122.83	115.83

There are no chirality outliers.

5 of 20 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	1000	SMG	N1-C1-CB-CG
3	B	1100	SMG	C1-CB-CG-SD
3	C	1200	SMG	N1-C1-CB-CG
3	C	1200	SMG	C2-C1-CB-CG
3	D	1300	SMG	N1-C1-CB-CG

There are no ring outliers.

4 monomers are involved in 39 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	D	1300	SMG	12	0
3	B	1100	SMG	8	0
3	C	1200	SMG	11	0
3	A	1000	SMG	8	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 ⓘ

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	367/368 (99%)	-0.32	2 (0%)	91	92	23, 51, 84, 98	0
1	B	368/368 (100%)	-0.43	2 (0%)	91	92	22, 38, 68, 100	0
1	C	367/368 (99%)	-0.33	7 (1%)	66	71	27, 47, 81, 100	0
1	D	368/368 (100%)	-0.18	6 (1%)	72	75	27, 58, 91, 100	0
All	All	1470/1472 (99%)	-0.32	17 (1%)	79	82	22, 48, 85, 100	0

The worst 5 of 17 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	220[A]	GLU	5.3
1	C	145	LEU	3.5
1	D	149	VAL	3.3
1	C	220[A]	GLU	3.2
1	D	68[A]	ARG	3.2

6.2   Non-standard residues in protein, DNA, RNA chains ⓘ

There are no non-standard protein/DNA/RNA residues in this entry.

6.3   Carbohydrates ⓘ

There are no monosaccharides in this entry.

6.4   Ligands ⓘ

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(Å^2)	Q<0.9
2	MG	D	1301	1/1	0.82	0.07	66,66,66,66	0
3	SMG	D	1300	16/16	0.88	0.17	37,78,100,100	0
3	SMG	C	1200	16/16	0.93	0.10	23,54,100,100	0
2	MG	A	1001	1/1	0.94	0.04	47,47,47,47	0
3	SMG	A	1000	16/16	0.95	0.10	38,57,85,100	0
3	SMG	B	1100	16/16	0.95	0.11	31,50,100,100	0
2	MG	C	1201	1/1	0.97	0.06	47,47,47,47	0
2	MG	B	1101	1/1	0.98	0.03	33,33,33,33	0

6.5   Other polymers (i)

There are no such residues in this entry.