



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 4, 2026 – 10:05 PM UTC

PDB ID : 6O0E / pdb_00006o0e
Title : Saxiphilin:STX complex, soaking
Authors : Yen, T.J.; Lolicato, M.; Minor, D.L.
Deposited on : 2019-02-16
Resolution : 2.50 Å(reported)

This is a Full wwPDB X-ray Structure Validation 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
Buster-report : wwPDB partial adaption of 1.1.7 (2018)
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

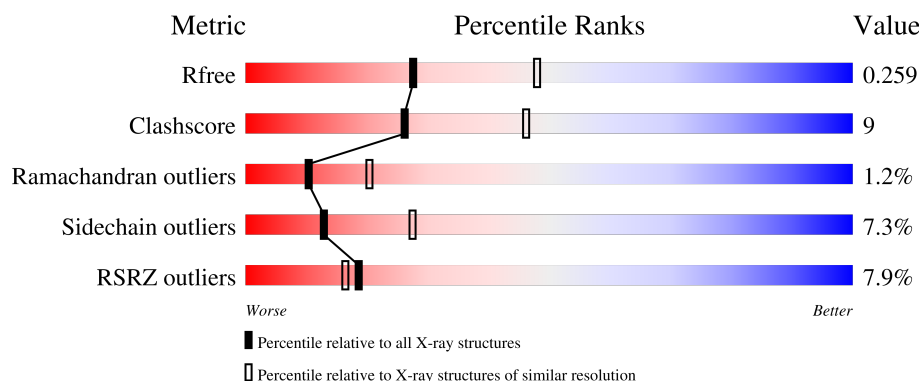
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.50 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	5829 (2.50-2.50)
Clashscore	190562	6492 (2.50-2.50)
Ramachandran outliers	187476	6378 (2.50-2.50)
Sidechain outliers	187428	6380 (2.50-2.50)
RSRZ outliers	180081	5833 (2.50-2.50)

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	853	
1	B	853	

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 12541 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.

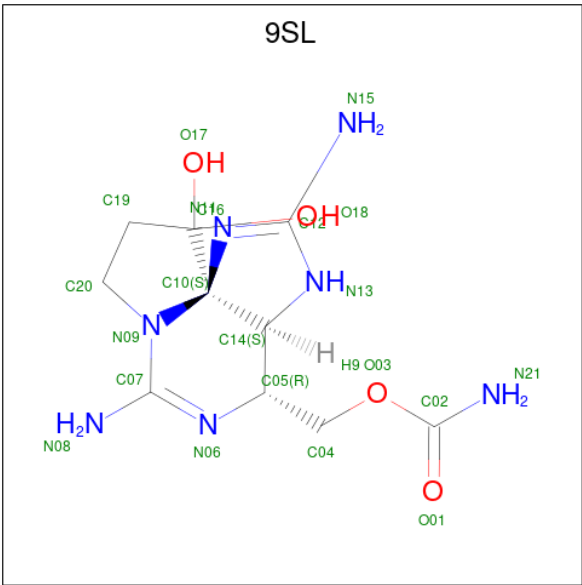
- Molecule 1 is a protein called Saxiphilin.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	799	Total	C	N	O	S	0	0	0
			6169	3856	1065	1189	59			
1	B	815	Total	C	N	O	S	0	0	0
			6289	3927	1086	1217	59			

There are 18 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	826	SER	-	expression tag	UNP P31226
A	827	ASN	-	expression tag	UNP P31226
A	828	SER	-	expression tag	UNP P31226
A	829	LEU	-	expression tag	UNP P31226
A	830	GLU	-	expression tag	UNP P31226
A	831	VAL	-	expression tag	UNP P31226
A	832	LEU	-	expression tag	UNP P31226
A	833	PHE	-	expression tag	UNP P31226
A	834	GLN	-	expression tag	UNP P31226
B	826	SER	-	expression tag	UNP P31226
B	827	ASN	-	expression tag	UNP P31226
B	828	SER	-	expression tag	UNP P31226
B	829	LEU	-	expression tag	UNP P31226
B	830	GLU	-	expression tag	UNP P31226
B	831	VAL	-	expression tag	UNP P31226
B	832	LEU	-	expression tag	UNP P31226
B	833	PHE	-	expression tag	UNP P31226
B	834	GLN	-	expression tag	UNP P31226

- Molecule 2 is [(3aS,4R,10aS)-2,6-diamino-10,10-dihydroxy-3a,4,9,10-tetrahydro-3H,8H-pyrrolo[1,2-c]purin-4-yl]methyl carbamate (CCD ID: 9SL) (formula: C₁₀H₁₇N₇O₄).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	C	N	O	0	0
			21	10	7	4		
2	B	1	Total	C	N	O	0	0
			21	10	7	4		

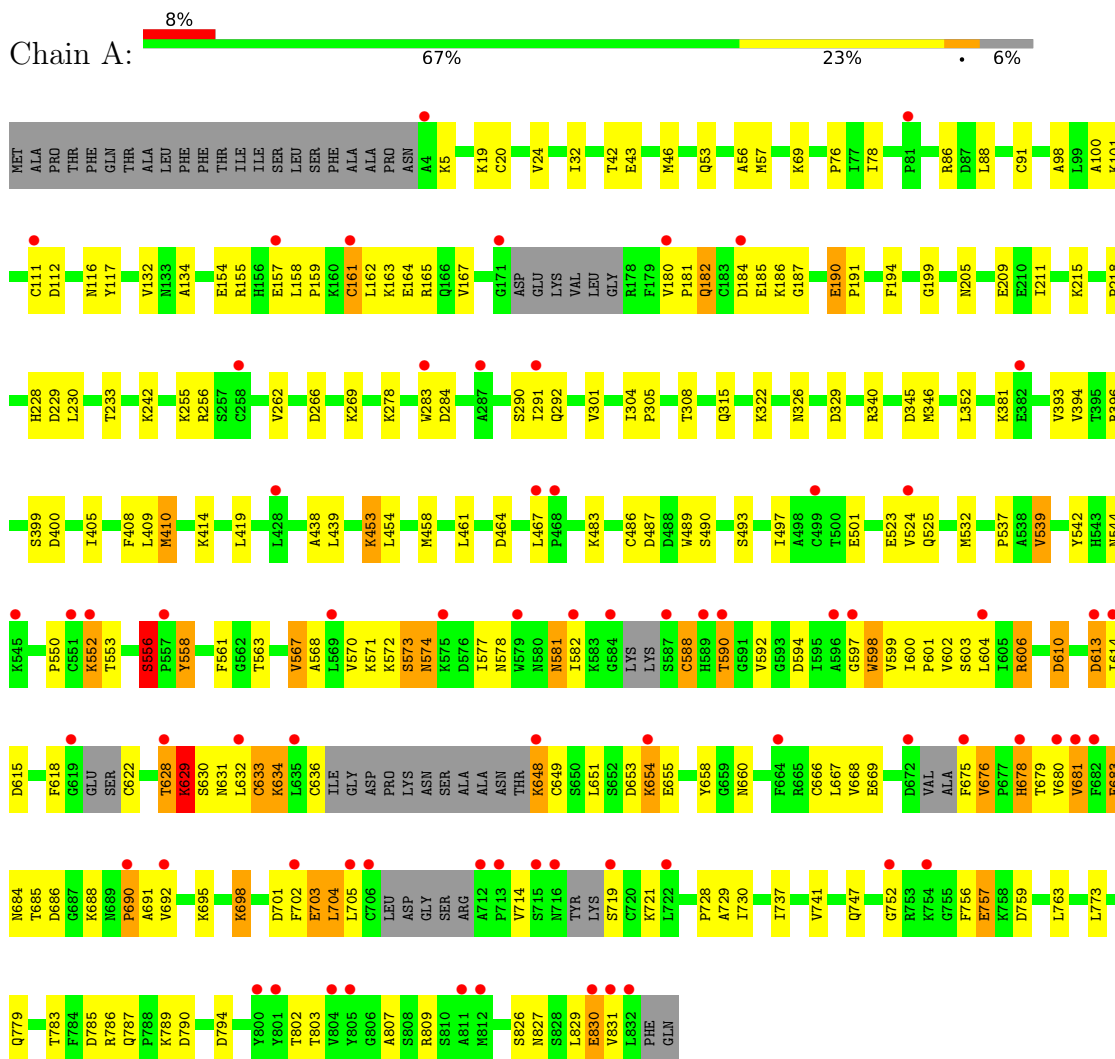
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	24	Total	O	0	0
			24	24		
3	B	17	Total	O	0	0
			17	17		

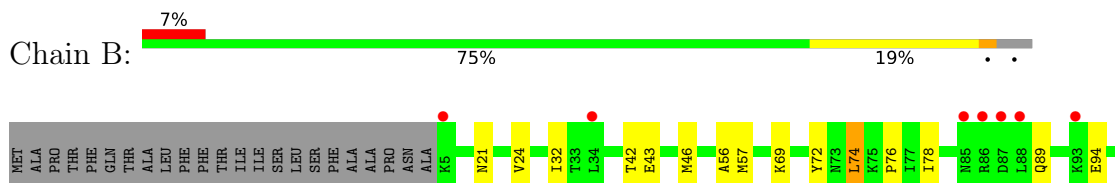
3 Residue-property plots

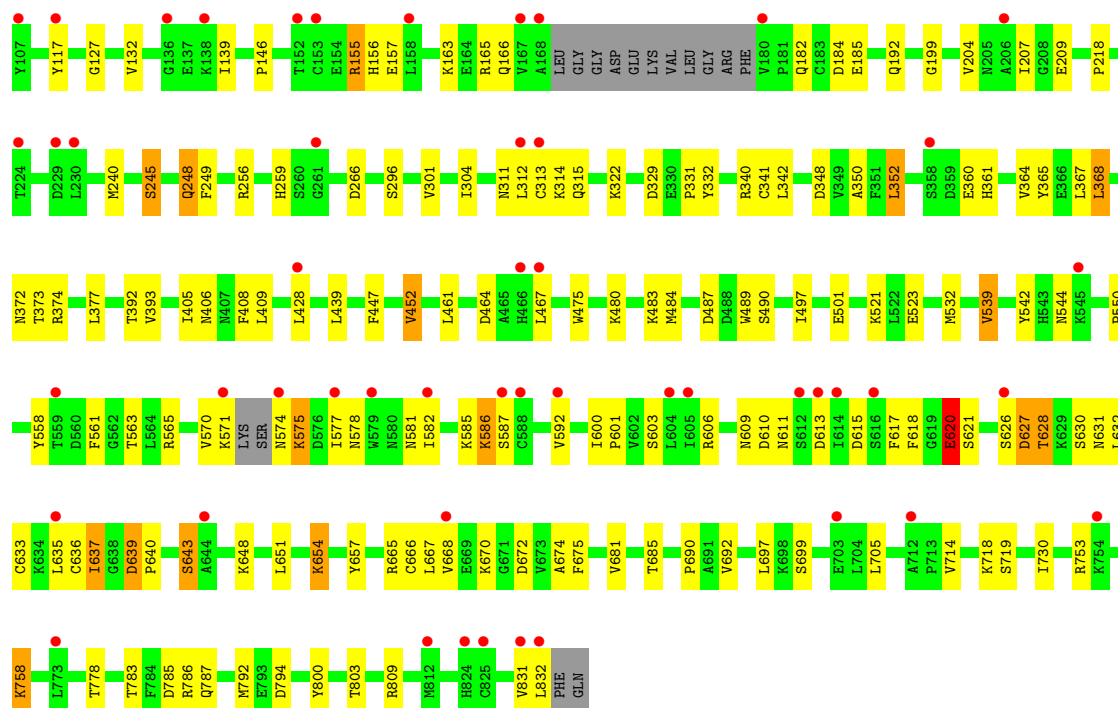
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according to the number of geometric quality criteria 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: Saxiphilin



• Molecule 1: Saxiphilin





4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	96.38Å 110.76Å 254.55Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	48.19 – 2.50 48.19 – 2.50	Depositor EDS
% Data completeness (in resolution range)	99.2 (48.19-2.50) 99.5 (48.19-2.50)	Depositor EDS
R_{merge}	0.11	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.30 (at 2.51Å)	Xtriage
Refinement program	PHENIX (1.12_2829)	Depositor
R, R_{free}	0.237 , 0.262 0.235 , 0.259	Depositor DCC
R_{free} test set	4702 reflections (4.95%)	wwPDB-VP
Wilson B-factor (Å ²)	62.7	Xtriage
Anisotropy	0.694	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.27 , 54.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	12541	wwPDB-VP
Average B, all atoms (Å ²)	105.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.92% 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

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: 9SL

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	0.15	0/6287	0.43	2/8476 (0.0%)
1	B	0.15	0/6413	0.44	0/8655
All	All	0.15	0/12700	0.43	2/17131 (0.0%)

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	A	0	3
1	B	0	2
All	All	0	5

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	691	ALA	CA-C-N	5.25	131.43	121.97
1	A	691	ALA	C-N-CA	5.25	131.43	121.97

There are no chirality outliers.

All (5) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	556	SER	Peptide
1	A	573	SER	Peptide
1	A	610	ASP	Peptide
1	B	610	ASP	Peptide

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Mol	Chain	Res	Type	Group
1	B	639	ASP	Peptide

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	6169	0	6029	137	1
1	B	6289	0	6153	94	0
2	A	21	0	0	0	0
2	B	21	0	0	1	0
3	A	24	0	0	3	0
3	B	17	0	0	0	0
All	All	12541	0	12182	231	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 9.

All (231) 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:A:69:LYS:NZ	1:A:464:ASP:OD2	1.85	1.08
1:A:396:ARG:NH1	1:A:400:ASP:OD1	1.94	0.99
1:B:69:LYS:NZ	1:B:464:ASP:OD2	2.03	0.91
1:B:609:ASN:HD22	1:B:617:PHE:HE1	1.19	0.90
1:A:698:LYS:NZ	1:A:701:ASP:OD2	2.05	0.89
1:A:578:ASN:OD1	1:A:581:ASN:ND2	2.09	0.85
1:A:654:LYS:HB2	1:A:654:LYS:NZ	2.02	0.74
1:A:269:LYS:NZ	1:A:458:MET:HE1	2.03	0.73
1:A:269:LYS:HZ3	1:A:458:MET:HE1	1.55	0.72
1:A:570:VAL:HG12	1:A:571:LYS:H	1.54	0.72
1:A:86:ARG:NH1	1:A:228:HIS:O	2.22	0.72
1:B:578:ASN:OD1	1:B:581:ASN:ND2	2.22	0.72
1:A:301:VAL:HG22	1:A:315:GLN:HG2	1.72	0.71
1:A:636:CYS:HB2	1:A:648:LYS:NZ	2.06	0.70
1:A:88:LEU:HD23	1:A:186:LYS:HE2	1.73	0.69
1:B:245:SER:HB2	1:B:374:ARG:HH22	1.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:262:VAL:HG22	1:A:304:ILE:HG22	1.75	0.68
1:B:43:GLU:HA	1:B:46:MET:HE2	1.75	0.68
1:B:657:TYR:HD2	1:B:666:CYS:HB2	1.58	0.68
1:A:381:LYS:NZ	1:A:827:ASN:OD1	2.19	0.68
1:B:753:ARG:NH1	1:B:778:THR:O	2.27	0.67
1:A:603:SER:OG	1:A:803:THR:O	2.11	0.67
1:A:572:LYS:O	1:A:574:ASN:N	2.28	0.67
1:A:615:ASP:O	1:A:631:ASN:ND2	2.28	0.67
1:B:155:ARG:NE	1:B:157:GLU:OE2	2.29	0.66
1:A:602:VAL:HG13	1:A:606:ARG:NH1	2.10	0.66
1:A:98:ALA:HA	1:A:101:LYS:HD2	1.76	0.66
1:B:620:GLU:HB3	1:B:635:LEU:HD11	1.78	0.64
1:A:578:ASN:H	1:A:581:ASN:HD21	1.45	0.64
1:B:609:ASN:ND2	1:B:617:PHE:HE1	1.95	0.63
1:A:597:GLY:O	1:A:599:VAL:N	2.30	0.63
1:A:56:ALA:HB2	1:A:405:ILE:HD13	1.81	0.63
1:A:558:TYR:HD1	1:A:558:TYR:H	1.47	0.63
1:B:654:LYS:NZ	1:B:654:LYS:HB3	2.13	0.63
1:B:636:CYS:HB2	1:B:648:LYS:HG3	1.80	0.62
1:A:489:TRP:HE1	1:A:747:GLN:HG2	1.65	0.61
1:A:552:LYS:NZ	1:A:552:LYS:HB2	2.15	0.61
1:B:72:TYR:HB3	1:B:74:LEU:HD22	1.81	0.61
1:A:592:VAL:HG12	1:A:651:LEU:HD21	1.83	0.61
1:B:532:MET:HE1	1:B:809:ARG:HD2	1.81	0.60
1:A:829:LEU:O	1:A:831:VAL:N	2.27	0.60
1:A:561:PHE:HB3	1:A:563:THR:HG23	1.84	0.60
1:A:628:THR:C	1:A:629:LYS:HD3	2.27	0.60
1:A:568:ALA:HB2	1:A:675:PHE:CE1	2.36	0.60
1:A:752:GLY:HA2	1:A:763:LEU:H	1.65	0.60
1:A:790:ASP:O	1:A:794:ASP:N	2.31	0.60
1:A:292:GLN:OE1	1:A:308:THR:N	2.25	0.60
1:A:648:LYS:NZ	1:A:655:GLU:OE1	2.35	0.60
1:A:567:VAL:HG11	1:A:704:LEU:HD12	1.83	0.60
1:A:161:CYS:SG	1:A:162:LEU:N	2.74	0.59
1:A:262:VAL:HG23	1:A:305:PRO:O	2.03	0.59
1:A:606:ARG:HH12	1:A:613:ASP:HB3	1.66	0.59
1:B:78:ILE:HD13	1:B:409:LEU:HD12	1.85	0.59
1:B:301:VAL:HG22	1:B:315:GLN:HG2	1.84	0.58
1:B:155:ARG:HG2	1:B:157:GLU:HG3	1.85	0.58
1:A:636:CYS:HB2	1:A:648:LYS:HZ1	1.68	0.58
1:A:550:PRO:HG2	1:A:558:TYR:HB3	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:19:LYS:NZ	3:A:1003:HOH:O	2.36	0.57
1:A:681:VAL:HG21	1:A:714:VAL:HG21	1.88	0.56
1:B:570:VAL:HG13	1:B:705:LEU:HD11	1.86	0.56
1:B:361:HIS:HB3	1:B:365:TYR:CD2	2.40	0.56
1:B:794:ASP:OD1	2:B:901:9SL:N15	2.38	0.56
1:A:539:VAL:HG23	1:A:730:ILE:HB	1.88	0.56
1:B:603:SER:OG	1:B:803:THR:O	2.24	0.56
1:A:654:LYS:HB2	1:A:654:LYS:HZ3	1.71	0.55
1:A:606:ARG:NH1	1:A:606:ARG:HB3	2.22	0.55
1:B:249:PHE:N	1:B:368:LEU:HD21	2.21	0.55
1:A:537:PRO:HB3	1:A:729:ALA:HB1	1.88	0.55
1:B:94:GLU:OE1	1:B:117:TYR:OH	2.26	0.54
1:B:542:TYR:CZ	1:B:544:ASN:HB3	2.43	0.54
1:A:396:ARG:HH11	1:A:396:ARG:HB2	1.72	0.54
1:B:32:ILE:HG21	1:B:408:PHE:HB2	1.89	0.54
1:A:340:ARG:NH1	3:A:1002:HOH:O	2.35	0.54
1:B:332:TYR:CG	1:B:341:CYS:HB2	2.43	0.54
1:A:322:LYS:HD3	1:A:329:ASP:HB3	1.89	0.53
1:B:21:ASN:HA	1:B:24:VAL:HG12	1.91	0.53
1:A:570:VAL:HG11	1:A:577:ILE:HB	1.90	0.53
1:A:571:LYS:NZ	1:A:667:LEU:O	2.40	0.52
1:B:304:ILE:HD12	1:B:312:LEU:HD13	1.90	0.52
1:B:621:SER:HB2	1:B:632:LEU:HA	1.90	0.52
1:A:532:MET:HE1	1:A:809:ARG:HD2	1.91	0.52
1:A:100:ALA:HB1	1:A:414:LYS:HE2	1.91	0.52
1:A:786:ARG:HD2	1:A:794:ASP:OD2	2.09	0.52
1:A:410:MET:HE1	1:A:438:ALA:HA	1.92	0.51
1:A:668:VAL:HG13	1:A:669:GLU:OE2	2.10	0.51
1:A:32:ILE:HG21	1:A:408:PHE:HB2	1.93	0.51
1:A:230:LEU:HD11	1:A:826:SER:HB2	1.93	0.51
1:B:199:GLY:HA3	1:B:218:PRO:HG3	1.93	0.51
1:B:620:GLU:HB3	1:B:635:LEU:CD1	2.42	0.50
1:A:256:ARG:NH2	1:A:345:ASP:O	2.41	0.50
1:A:588:CYS:HB3	1:A:622:CYS:N	2.27	0.50
1:B:207:ILE:HD11	1:B:209:GLU:OE2	2.12	0.50
1:A:190:GLU:HG3	1:A:191:PRO:HD2	1.93	0.50
1:A:581:ASN:H	1:A:581:ASN:HD22	1.60	0.50
1:A:590:THR:OG1	1:A:594:ASP:OD2	2.24	0.50
1:A:802:THR:HG22	1:A:807:ALA:HB2	1.93	0.50
1:A:630:SER:O	1:A:634:LYS:HD3	2.11	0.49
1:A:489:TRP:HE1	1:A:747:GLN:CG	2.24	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:737:ILE:O	1:A:741:VAL:HG12	2.12	0.49
1:B:565:ARG:HH12	1:B:718:LYS:HG3	1.77	0.49
1:B:301:VAL:HG23	1:B:314:LYS:HB3	1.95	0.49
1:B:550:PRO:HG2	1:B:558:TYR:HB3	1.95	0.49
1:B:667:LEU:HB2	1:B:674:ALA:HB2	1.94	0.49
1:B:699:SER:HB2	1:B:714:VAL:HG11	1.93	0.49
1:A:182:GLN:OE1	1:A:194:PHE:N	2.40	0.49
1:B:475:TRP:CZ2	1:B:730:ILE:HD12	2.48	0.49
1:B:592:VAL:HG12	1:B:651:LEU:HD21	1.95	0.49
1:B:606:ARG:HB2	1:B:611:ASN:HA	1.95	0.48
1:A:552:LYS:HB2	1:A:552:LYS:HZ2	1.77	0.48
1:B:615:ASP:OD1	1:B:630:SER:OG	2.26	0.48
1:A:165:ARG:HD3	1:A:181:PRO:O	2.13	0.48
1:A:704:LEU:HD22	1:A:714:VAL:HA	1.95	0.48
1:A:628:THR:O	1:A:630:SER:N	2.45	0.48
1:B:256:ARG:NH2	1:B:348:ASP:OD1	2.41	0.48
1:B:601:PRO:HB3	1:B:675:PHE:CD1	2.49	0.48
1:A:76:PRO:HA	1:A:394:VAL:HG12	1.94	0.48
1:A:326:ASN:ND2	3:A:1006:HOH:O	2.46	0.48
1:A:572:LYS:HB2	1:A:703:GLU:OE1	2.13	0.48
1:B:582:ILE:HD11	1:B:705:LEU:HD22	1.94	0.47
1:A:199:GLY:HA3	1:A:218:PRO:HG3	1.96	0.47
1:A:489:TRP:O	1:A:493:SER:HB3	2.15	0.47
1:A:568:ALA:HB2	1:A:675:PHE:CD1	2.50	0.47
1:B:665:ARG:HA	1:B:668:VAL:HG12	1.95	0.47
1:A:42:THR:O	1:A:46:MET:HG3	2.14	0.47
1:A:57:MET:O	1:A:393:VAL:HA	2.15	0.47
1:B:577:ILE:HD12	1:B:585:LYS:HG2	1.96	0.47
1:A:632:LEU:C	1:A:634:LYS:H	2.23	0.47
1:A:678:HIS:O	1:A:681:VAL:HG13	2.15	0.47
1:B:21:ASN:O	1:B:24:VAL:HG12	2.14	0.47
1:B:127:GLY:HA3	1:B:146:PRO:HG3	1.97	0.47
1:A:182:GLN:HE21	1:A:182:GLN:HB3	1.51	0.47
1:B:615:ASP:O	1:B:631:ASN:ND2	2.30	0.47
1:A:598:TRP:O	1:A:602:VAL:HB	2.16	0.46
1:B:259:HIS:CD2	1:B:304:ILE:HG12	2.50	0.46
1:B:539:VAL:HG12	1:B:730:ILE:HG13	1.98	0.46
1:A:163:LYS:O	1:A:167:VAL:HG23	2.14	0.46
1:A:622:CYS:N	1:A:632:LEU:HB3	2.30	0.46
1:A:205:ASN:HD21	1:A:209:GLU:HG2	1.80	0.46
1:B:184:ASP:OD1	1:B:185:GLU:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:831:VAL:HG22	1:B:831:VAL:O	2.15	0.46
1:A:632:LEU:O	1:A:634:LYS:N	2.49	0.46
1:A:592:VAL:HG23	1:A:598:TRP:CE2	2.51	0.45
1:B:240:MET:HE2	1:B:352:LEU:HD11	1.98	0.45
1:A:600:ILE:HB	1:A:601:PRO:HD3	1.98	0.45
1:B:342:LEU:HB2	1:B:350:ALA:HB2	1.98	0.45
1:A:570:VAL:HG12	1:A:571:LYS:N	2.26	0.45
1:A:685:THR:HG23	1:A:686:ASP:OD1	2.16	0.45
1:B:301:VAL:CG2	1:B:314:LYS:HB3	2.47	0.45
1:B:490:SER:OG	1:B:497:ILE:O	2.33	0.45
1:A:542:TYR:CZ	1:A:544:ASN:HB3	2.52	0.45
1:A:688:LYS:O	1:A:690:PRO:HD3	2.17	0.45
1:B:575:LYS:HB2	1:B:575:LYS:NZ	2.31	0.45
1:A:283:TRP:CZ2	1:A:291:ILE:HG12	2.52	0.45
1:A:604:LEU:HD12	1:A:604:LEU:HA	1.83	0.45
1:B:322:LYS:HD3	1:B:329:ASP:HB3	1.99	0.45
1:B:654:LYS:HB3	1:B:654:LYS:HZ2	1.81	0.45
1:B:296:SER:HB2	1:B:311:ASN:OD1	2.17	0.45
1:A:489:TRP:NE1	1:A:747:GLN:HG2	2.31	0.44
1:B:447:PHE:CZ	1:B:452:VAL:HG12	2.52	0.44
1:A:86:ARG:NH1	1:A:229:ASP:OD1	2.50	0.44
1:A:542:TYR:O	1:A:779:GLN:N	2.50	0.44
1:A:785:ASP:OD1	1:A:785:ASP:N	2.49	0.44
1:B:312:LEU:O	1:B:313:CYS:HB2	2.17	0.44
1:B:600:ILE:HD11	1:B:800:TYR:CD2	2.52	0.44
1:A:571:LYS:HE3	1:A:702:PHE:CE1	2.53	0.44
1:A:606:ARG:HB3	1:A:606:ARG:HH11	1.82	0.44
1:A:453:LYS:HE2	1:A:453:LYS:HB3	1.85	0.44
1:A:483:LYS:HE3	1:A:487:ASP:OD2	2.17	0.44
1:A:242:LYS:NZ	1:A:345:ASP:OD1	2.48	0.44
1:A:653:ASP:HA	1:A:658:TYR:HB3	1.99	0.43
1:B:56:ALA:HB2	1:B:405:ILE:HD13	2.00	0.43
1:B:248:GLN:HG2	1:B:372:ASN:C	2.43	0.43
1:B:296:SER:O	1:B:311:ASN:ND2	2.51	0.43
1:A:719:SER:HB2	1:A:721:LYS:HG2	2.00	0.43
1:A:756:PHE:C	1:A:757:GLU:OE2	2.62	0.43
1:B:758:LYS:HE2	1:B:758:LYS:HB3	1.85	0.43
1:B:331:PRO:HB3	1:B:340:ARG:HH12	1.84	0.43
1:B:574:ASN:OD1	1:B:575:LYS:NZ	2.51	0.43
1:B:165:ARG:O	1:B:166:GLN:HB2	2.18	0.43
1:B:571:LYS:C	1:B:574:ASN:HB3	2.44	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:582:ILE:HG22	1:A:618:PHE:CE1	2.54	0.43
1:A:155:ARG:HE	1:A:157:GLU:CD	2.26	0.43
1:B:406:ASN:OD1	1:B:439:LEU:HB2	2.19	0.43
1:A:134:ALA:HB2	1:A:157:GLU:HA	2.00	0.42
1:A:215:LYS:H	1:A:215:LYS:HG2	1.59	0.42
1:A:553:THR:O	1:A:556:SER:OG	2.37	0.42
1:A:629:LYS:O	1:A:629:LYS:NZ	2.49	0.42
1:B:561:PHE:HB3	1:B:563:THR:HG23	2.01	0.42
1:B:586:LYS:HG3	1:B:672:ASP:CG	2.44	0.42
1:B:617:PHE:HD2	1:B:618:PHE:CD1	2.37	0.42
1:A:649:CYS:H	1:A:655:GLU:CD	2.23	0.42
1:B:155:ARG:HG2	1:B:157:GLU:CG	2.50	0.42
1:A:486:CYS:HB2	1:A:773:LEU:HD11	2.01	0.42
1:A:787:GLN:HB2	1:A:789:LYS:HE2	2.01	0.42
1:B:57:MET:O	1:B:393:VAL:HA	2.19	0.42
1:B:718:LYS:HE3	1:B:718:LYS:HB2	1.87	0.42
1:A:91:CYS:HB2	1:A:117:TYR:CE1	2.54	0.42
1:A:490:SER:OG	1:A:497:ILE:O	2.26	0.42
1:A:615:ASP:CG	1:A:631:ASN:H	2.27	0.42
1:B:301:VAL:HG21	1:B:314:LYS:HD2	2.01	0.42
1:A:578:ASN:H	1:A:581:ASN:ND2	2.14	0.42
1:A:594:ASP:OD1	1:A:594:ASP:N	2.53	0.42
1:A:20:CYS:O	1:A:24:VAL:HG23	2.19	0.42
1:A:91:CYS:HB2	1:A:117:TYR:CD1	2.54	0.42
1:A:523:GLU:OE2	1:A:728:PRO:HG3	2.20	0.42
1:A:550:PRO:HG3	1:A:556:SER:O	2.19	0.42
1:A:112:ASP:OD2	1:A:116:ASN:HB2	2.19	0.41
1:B:785:ASP:OD1	1:B:785:ASP:N	2.49	0.41
1:A:159:PRO:HG3	1:A:187:GLY:HA3	2.02	0.41
1:B:42:THR:O	1:B:46:MET:HG3	2.20	0.41
1:B:483:LYS:HD3	1:B:501:GLU:HG3	2.02	0.41
1:B:627:ASP:O	1:B:628:THR:HB	2.20	0.41
1:B:78:ILE:HB	1:B:393:VAL:HB	2.01	0.41
1:B:367:LEU:HG	1:B:377:LEU:HD23	2.02	0.41
1:B:668:VAL:HG21	1:B:697:LEU:HD21	2.02	0.41
1:A:615:ASP:OD1	1:A:630:SER:HB3	2.20	0.41
1:B:483:LYS:HE2	1:B:487:ASP:OD1	2.21	0.41
1:A:205:ASN:ND2	1:A:209:GLU:HG2	2.35	0.41
1:A:483:LYS:HD3	1:A:501:GLU:HG3	2.03	0.41
1:A:679:THR:O	1:A:683:GLU:HG3	2.21	0.41
1:B:76:PRO:HB3	1:B:392:THR:HG21	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:360:GLU:O	1:B:361:HIS:CG	2.73	0.41
1:A:184:ASP:OD1	1:A:185:GLU:N	2.54	0.41
1:A:78:ILE:HB	1:A:393:VAL:HB	2.02	0.40
1:B:428:LEU:HD23	1:B:428:LEU:HA	1.84	0.40
1:A:539:VAL:HG12	1:A:783:THR:HA	2.03	0.40
1:B:480:LYS:O	1:B:484:MET:HG3	2.21	0.40
1:A:676:VAL:HG21	1:A:680:VAL:HG11	2.02	0.40
1:A:588:CYS:HB3	1:A:622:CYS:HB3	2.04	0.40
1:B:489:TRP:CE2	1:B:497:ILE:HG13	2.57	0.40
1:B:139:ILE:HD11	1:B:156:HIS:HE1	1.87	0.40

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:53:GLN:NE2	1:A:154:GLU:OE2[4_555]	2.05	0.15

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	783/853 (92%)	735 (94%)	38 (5%)	10 (1%)	9	18
1	B	809/853 (95%)	759 (94%)	41 (5%)	9 (1%)	11	22
All	All	1592/1706 (93%)	1494 (94%)	79 (5%)	19 (1%)	10	20

All (19) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	573	SER
1	A	598	TRP
1	A	629	LYS

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Mol	Chain	Res	Type
1	A	692	VAL
1	A	830	GLU
1	B	628	THR
1	B	640	PRO
1	A	633	CYS
1	B	637	ILE
1	B	692	VAL
1	A	284	ASP
1	A	610	ASP
1	B	613	ASP
1	B	690	PRO
1	A	684	ASN
1	B	627	ASP
1	B	643	SER
1	B	620	GLU
1	A	690	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	687/731 (94%)	626 (91%)	61 (9%)	9	20
1	B	701/731 (96%)	660 (94%)	41 (6%)	18	38
All	All	1388/1462 (95%)	1286 (93%)	102 (7%)	13	27

All (102) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	5	LYS
1	A	43	GLU
1	A	111	CYS
1	A	132	VAL
1	A	158	LEU
1	A	161	CYS
1	A	164	GLU

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Mol	Chain	Res	Type
1	A	180	VAL
1	A	182	GLN
1	A	190	GLU
1	A	211	ILE
1	A	233	THR
1	A	255	LYS
1	A	266	ASP
1	A	278	LYS
1	A	290	SER
1	A	346	MET
1	A	352	LEU
1	A	399	SER
1	A	409	LEU
1	A	410	MET
1	A	419	LEU
1	A	439	LEU
1	A	453	LYS
1	A	454	LEU
1	A	461	LEU
1	A	467	LEU
1	A	524	VAL
1	A	525	GLN
1	A	539	VAL
1	A	552	LYS
1	A	556	SER
1	A	558	TYR
1	A	567	VAL
1	A	574	ASN
1	A	581	ASN
1	A	588	CYS
1	A	590	THR
1	A	606	ARG
1	A	613	ASP
1	A	614	ILE
1	A	628	THR
1	A	629	LYS
1	A	633	CYS
1	A	634	LYS
1	A	648	LYS
1	A	654	LYS
1	A	660	ASN
1	A	666	CYS

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Mol	Chain	Res	Type
1	A	676	VAL
1	A	678	HIS
1	A	681	VAL
1	A	683	GLU
1	A	695	LYS
1	A	698	LYS
1	A	703	GLU
1	A	704	LEU
1	A	705	LEU
1	A	757	GLU
1	A	759	ASP
1	A	830	GLU
1	B	74	LEU
1	B	89	GLN
1	B	132	VAL
1	B	155	ARG
1	B	163	LYS
1	B	182	GLN
1	B	192	GLN
1	B	204	VAL
1	B	245	SER
1	B	248	GLN
1	B	266	ASP
1	B	352	LEU
1	B	364	VAL
1	B	368	LEU
1	B	373	THR
1	B	452	VAL
1	B	461	LEU
1	B	467	LEU
1	B	521	LYS
1	B	523	GLU
1	B	539	VAL
1	B	575	LYS
1	B	586	LYS
1	B	587	SER
1	B	620	GLU
1	B	626	SER
1	B	633	CYS
1	B	637	ILE
1	B	639	ASP
1	B	643	SER

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Mol	Chain	Res	Type
1	B	654	LYS
1	B	670	LYS
1	B	681	VAL
1	B	685	THR
1	B	719	SER
1	B	758	LYS
1	B	783	THR
1	B	786	ARG
1	B	787	GLN
1	B	792	MET
1	B	832	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (15) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	128	HIS
1	A	143	ASN
1	A	248	GLN
1	A	323	ASN
1	A	578	ASN
1	A	580	ASN
1	A	581	ASN
1	A	747	GLN
1	A	770	ASN
1	B	116	ASN
1	B	148	GLN
1	B	309	GLN
1	B	581	ASN
1	B	611	ASN
1	B	696	ASN

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 [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

2 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	9SL	A	901	-	17,23,23	6.18	10 (58%)	14,37,37	3.19	9 (64%)
2	9SL	B	901	-	17,23,23	6.09	10 (58%)	14,37,37	3.11	7 (50%)

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	9SL	A	901	-	-	3/5/53/53	0/3/3/3
2	9SL	B	901	-	-	2/5/53/53	0/3/3/3

All (20) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	901	9SL	C12-N13	15.86	1.60	1.35
2	A	901	9SL	C12-N13	15.84	1.60	1.35
2	A	901	9SL	C20-N09	-10.44	1.34	1.47
2	B	901	9SL	C20-N09	-9.85	1.35	1.47
2	B	901	9SL	C19-C20	-8.74	1.37	1.52
2	A	901	9SL	C19-C20	-8.70	1.37	1.52
2	A	901	9SL	C07-N08	7.49	1.47	1.34
2	B	901	9SL	C07-N08	7.35	1.47	1.34
2	B	901	9SL	C02-N21	7.28	1.46	1.33
2	A	901	9SL	C02-N21	7.22	1.46	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	901	9SL	C12-N15	6.15	1.48	1.34
2	B	901	9SL	C12-N15	5.36	1.46	1.34
2	B	901	9SL	C07-N09	4.97	1.44	1.35
2	A	901	9SL	C07-N09	4.92	1.44	1.35
2	B	901	9SL	O03-C02	4.18	1.41	1.35
2	A	901	9SL	O03-C02	4.04	1.41	1.35
2	B	901	9SL	C05-C14	3.45	1.59	1.52
2	A	901	9SL	C05-C14	3.42	1.59	1.52
2	B	901	9SL	C05-N06	-2.59	1.43	1.47
2	A	901	9SL	C05-N06	-2.42	1.43	1.47

All (16) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	901	9SL	O03-C02-N21	7.25	120.13	111.11
2	A	901	9SL	O03-C02-N21	6.36	119.03	111.11
2	A	901	9SL	C19-C20-N09	4.94	109.26	103.81
2	B	901	9SL	C19-C20-N09	4.50	108.78	103.81
2	A	901	9SL	N13-C12-N11	-4.29	104.47	115.62
2	A	901	9SL	N15-C12-N11	3.94	130.90	125.42
2	B	901	9SL	N13-C12-N11	-3.74	105.90	115.62
2	B	901	9SL	O01-C02-N21	-3.67	119.79	125.58
2	B	901	9SL	O03-C02-O01	-3.25	120.08	123.08
2	A	901	9SL	O01-C02-N21	-3.20	120.53	125.58
2	A	901	9SL	N09-C07-N06	-3.09	121.11	125.42
2	A	901	9SL	O03-C02-O01	-2.85	120.45	123.08
2	B	901	9SL	N09-C07-N06	-2.81	121.51	125.42
2	B	901	9SL	N15-C12-N13	2.38	126.59	122.70
2	A	901	9SL	C14-C05-N06	2.37	117.68	111.22
2	A	901	9SL	C04-O03-C02	-2.29	113.04	116.26

There are no chirality outliers.

All (5) torsion outliers are listed below:

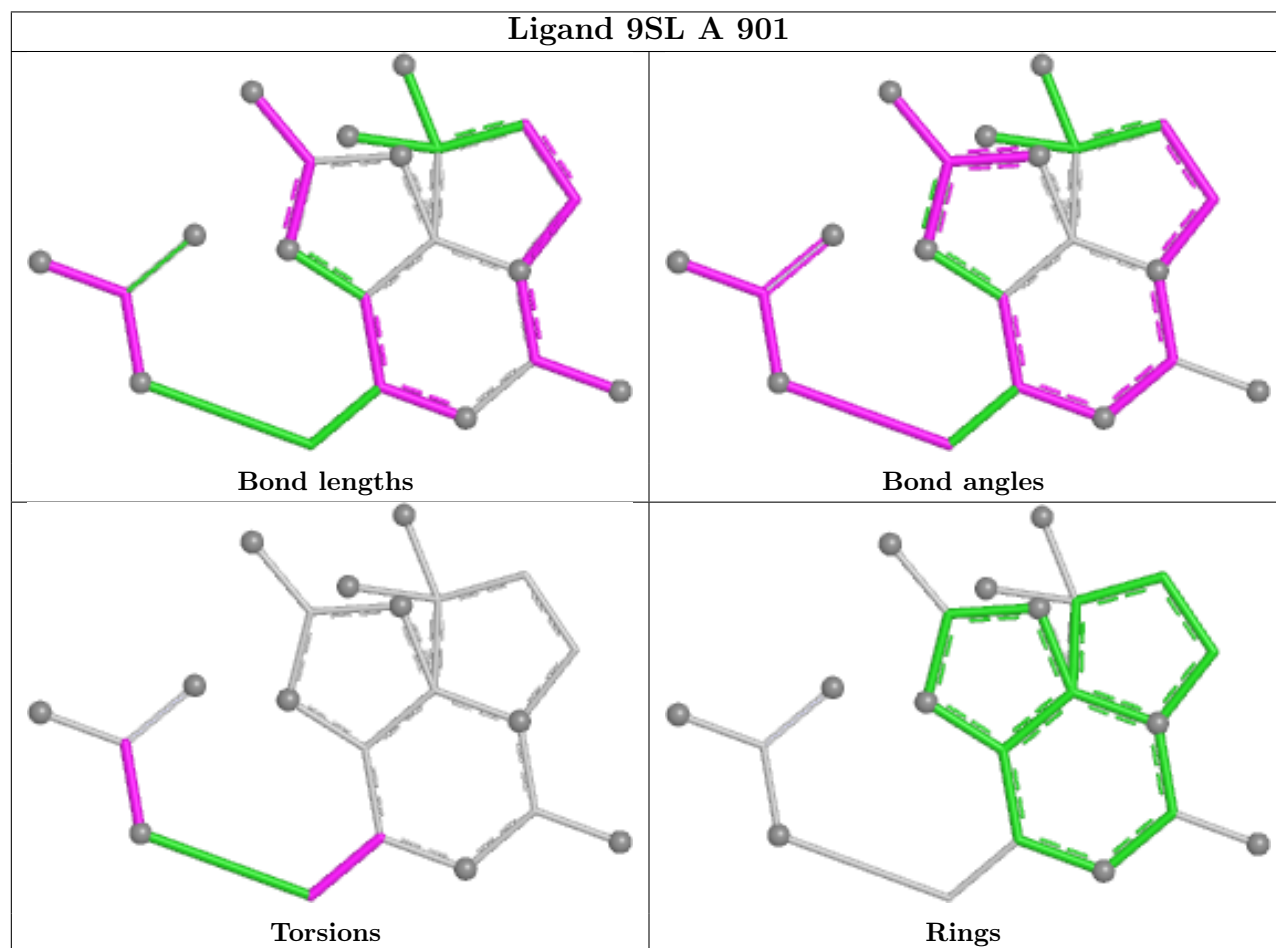
Mol	Chain	Res	Type	Atoms
2	A	901	9SL	O03-C04-C05-N06
2	A	901	9SL	O03-C04-C05-C14
2	B	901	9SL	O01-C02-O03-C04
2	B	901	9SL	N21-C02-O03-C04
2	A	901	9SL	N21-C02-O03-C04

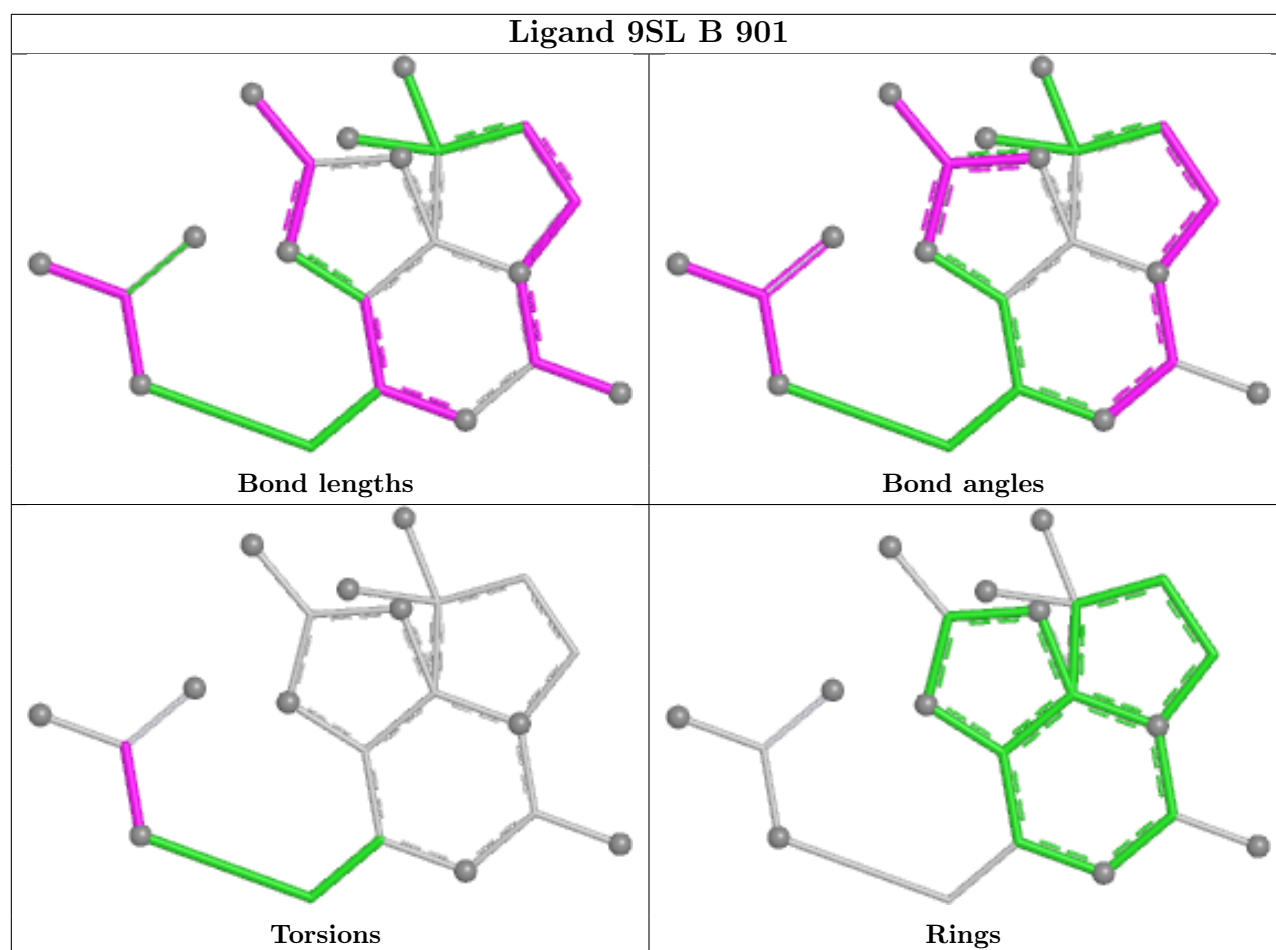
There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	901	9SL	1	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.





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	799/853 (93%)	0.70	70 (8%) 15 14	57, 91, 184, 239	0
1	B	815/853 (95%)	0.68	57 (6%) 22 20	59, 98, 155, 252	0
All	All	1614/1706 (94%)	0.69	127 (7%) 18 16	57, 95, 175, 252	0

All (127) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	180	VAL	5.8
1	B	153	CYS	5.4
1	A	831	VAL	4.9
1	A	579	TRP	4.9
1	A	287	ALA	4.4
1	A	706	CYS	4.4
1	B	832	LEU	4.2
1	B	604	LEU	4.2
1	A	587	SER	4.0
1	B	612	SER	3.9
1	A	613	ASP	3.9
1	A	811	ALA	3.8
1	B	614	ILE	3.8
1	B	773	LEU	3.8
1	B	613	ASP	3.8
1	A	582	ILE	3.8
1	B	5	LYS	3.7
1	A	664	PHE	3.7
1	A	632	LEU	3.7
1	B	579	TRP	3.6
1	B	168	ALA	3.6
1	A	258	CYS	3.6
1	A	680	VAL	3.6
1	A	557	PRO	3.6

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Mol	Chain	Res	Type	RSRZ
1	B	831	VAL	3.5
1	B	703	GLU	3.5
1	B	136	GLY	3.5
1	B	88	LEU	3.5
1	A	800	TYR	3.4
1	A	4	ALA	3.4
1	B	588	CYS	3.4
1	A	830	GLU	3.2
1	B	644	ALA	3.2
1	A	754	LYS	3.2
1	A	596	ALA	3.2
1	A	161	CYS	3.2
1	A	635	LEU	3.1
1	A	705	LEU	3.1
1	B	605	ILE	3.1
1	A	551	CYS	3.1
1	B	574	ASN	3.1
1	B	358	SER	3.1
1	A	719	SER	3.0
1	A	672	ASP	3.0
1	B	167	VAL	3.0
1	B	87	ASP	2.9
1	B	117	TYR	2.9
1	B	577	ILE	2.9
1	B	224	THR	2.8
1	A	801	TYR	2.8
1	A	832	LEU	2.8
1	A	499	CYS	2.7
1	A	468	PRO	2.7
1	A	812	MET	2.7
1	A	171	GLY	2.7
1	A	614	ILE	2.7
1	B	93	LYS	2.7
1	A	702	PHE	2.7
1	A	180	VAL	2.7
1	B	85	ASN	2.6
1	A	283	TRP	2.6
1	A	597	GLY	2.6
1	A	291	ILE	2.6
1	A	675	PHE	2.6
1	B	592	VAL	2.6
1	B	206	ALA	2.6

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Mol	Chain	Res	Type	RSRZ
1	B	86	ARG	2.6
1	A	524	VAL	2.5
1	A	692	VAL	2.5
1	A	690	PRO	2.5
1	B	313	CYS	2.5
1	B	571	LYS	2.5
1	B	466	HIS	2.5
1	B	152	THR	2.5
1	B	825	CYS	2.4
1	B	229	ASP	2.4
1	B	230	LEU	2.4
1	B	812	MET	2.4
1	A	722	LEU	2.4
1	B	312	LEU	2.4
1	B	754	LYS	2.4
1	A	752	GLY	2.4
1	A	111	CYS	2.4
1	A	804	VAL	2.4
1	A	552	LYS	2.4
1	B	545	LYS	2.4
1	B	712	ALA	2.4
1	A	681	VAL	2.3
1	A	590	THR	2.3
1	A	628	THR	2.3
1	A	619	GLY	2.3
1	B	467	LEU	2.3
1	B	107	TYR	2.3
1	B	158	LEU	2.3
1	A	805	TYR	2.3
1	A	604	LEU	2.2
1	A	715	SER	2.2
1	A	184	ASP	2.2
1	A	716	ASN	2.2
1	B	428	LEU	2.2
1	A	654	LYS	2.2
1	B	824	HIS	2.2
1	B	668	VAL	2.2
1	B	635	LEU	2.2
1	A	382	GLU	2.2
1	A	81	PRO	2.2
1	B	138	LYS	2.2
1	A	712	ALA	2.1

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Mol	Chain	Res	Type	RSRZ
1	A	575	LYS	2.1
1	A	569	LEU	2.1
1	A	545	LYS	2.1
1	A	713	PRO	2.1
1	A	584	GLY	2.1
1	B	34	LEU	2.1
1	A	157	GLU	2.1
1	B	616	SER	2.1
1	B	626	SER	2.1
1	A	428	LEU	2.1
1	B	261	GLY	2.1
1	A	678	HIS	2.1
1	A	682	PHE	2.0
1	A	467	LEU	2.0
1	B	559	THR	2.0
1	B	587	SER	2.0
1	A	589	HIS	2.0
1	A	648	LYS	2.0
1	B	582	ILE	2.0

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.

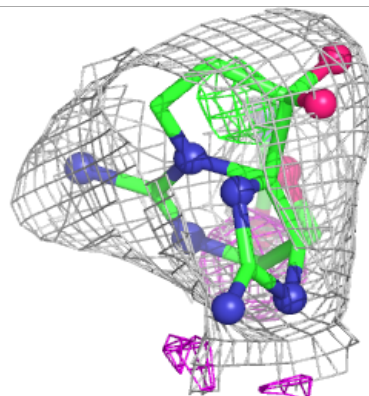
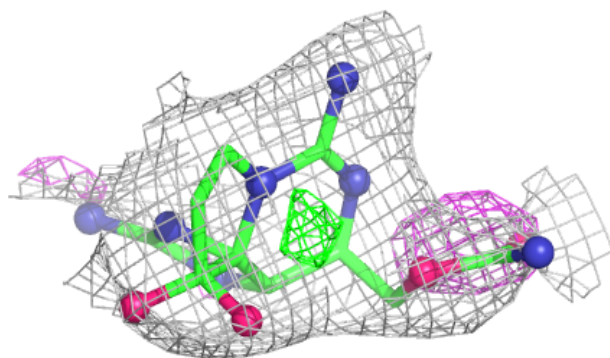
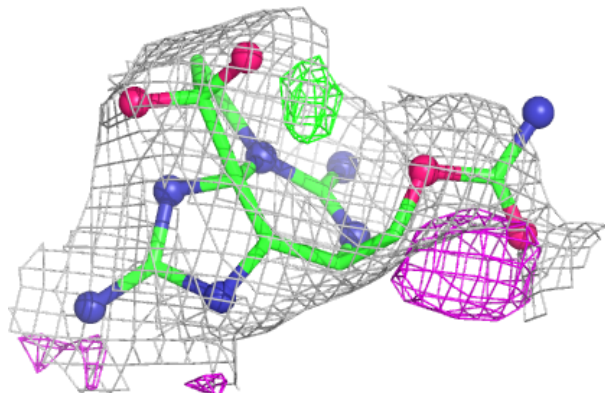
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	9SL	A	901	21/21	0.84	0.12	116,143,156,160	0
2	9SL	B	901	21/21	0.93	0.10	65,84,105,114	0

The following is a graphical depiction of the model fit to experimental electron density of all

instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

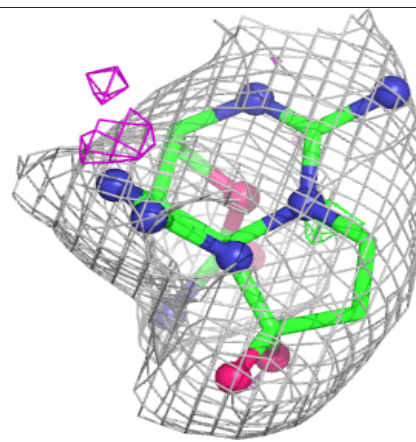
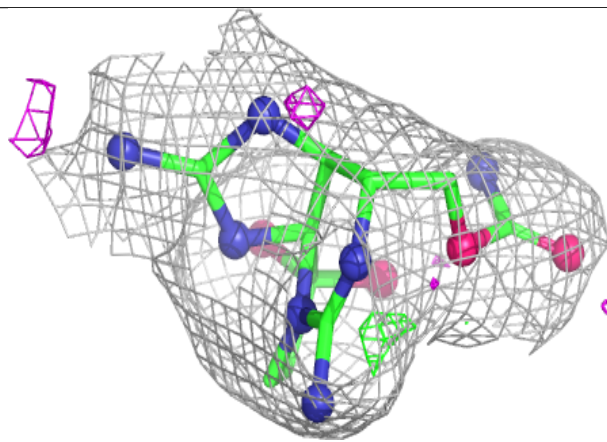
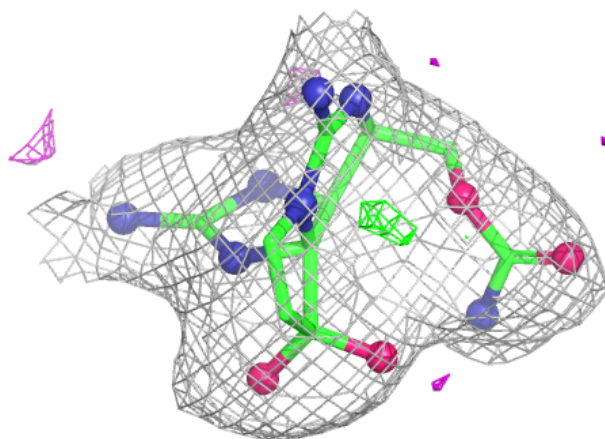
Electron density around 9SL A 901:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around 9SL B 901:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



6.5 Other polymers [i](#)

There are no such residues in this entry.