



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 8, 2026 – 08:11 AM UTC

PDB ID : 1F0C / pdb_00001f0c
Title : STRUCTURE OF THE VIRAL SERPIN CRMA
Authors : Renatus, M.; Zhou, Q.; Stennicke, H.R.; Snipas, S.J.; Turk, D.; Bankston, L.A.; Liddington, R.C.; Salvesen, G.S.
Deposited on : 2000-05-15
Resolution : 2.26 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
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

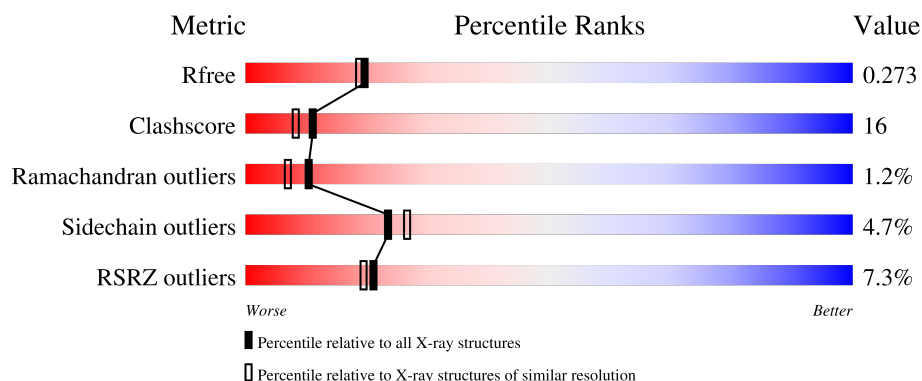
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

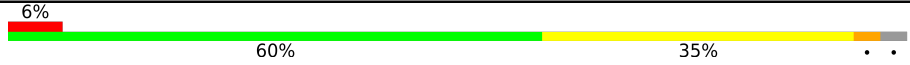
The reported resolution of this entry is 2.26 Å.

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	1898 (2.26-2.26)
Clashscore	190562	2005 (2.26-2.26)
Ramachandran outliers	187476	1965 (2.26-2.26)
Sidechain outliers	187428	1966 (2.26-2.26)
RSRZ outliers	180081	1898 (2.26-2.26)

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	305	
2	B	36	

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 2776 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.

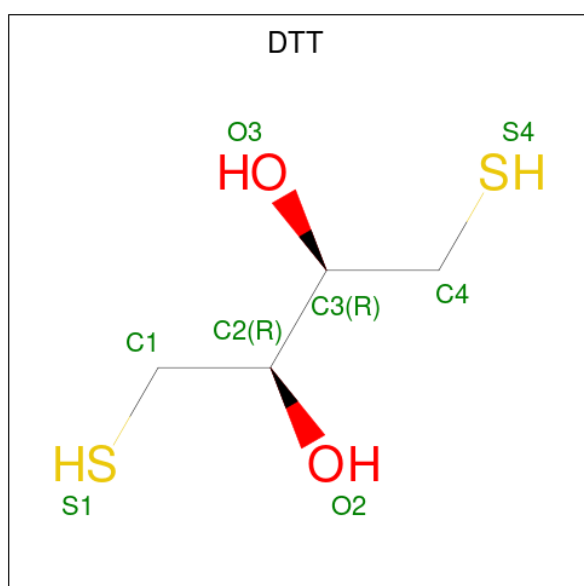
- Molecule 1 is a protein called ICE INHIBITOR.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	297	Total	C	N	O	S	19	0	0
			2314	1481	353	460	20			

- Molecule 2 is a protein called ICE INHIBITOR.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	36	Total	C	N	O	S	17	0	0
			287	185	49	51	2			

- Molecule 3 is 2,3-DIHYDROXY-1,4-DITHIOBUTANE (CCD ID: DTT) (formula: $C_4H_{10}O_2S_2$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	1	Total	C	O	S	0	0
			8	4	2	2		

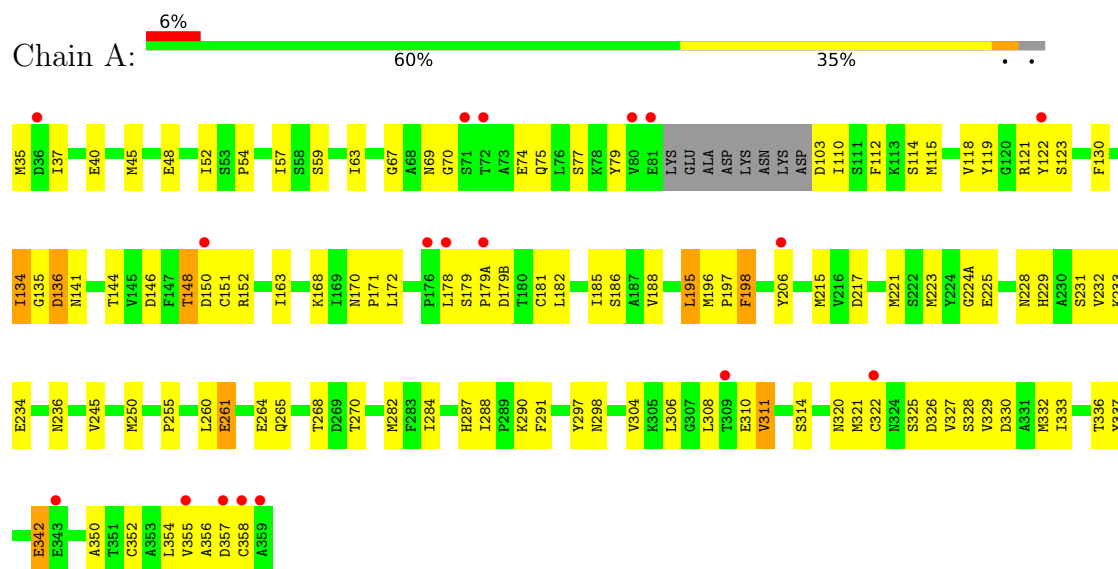
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	145	Total 145	O 145	0	0
4	B	22	Total 22	O 22	0	0

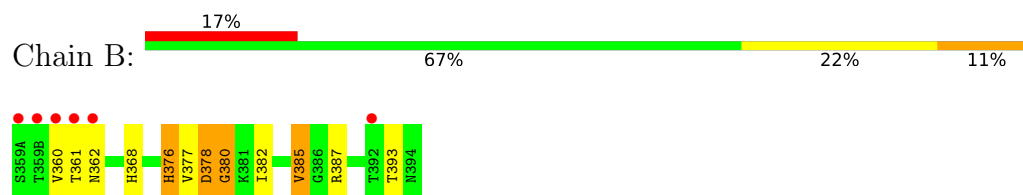
3 Residue-property plots [i](#)

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: ICE INHIBITOR



• Molecule 2: ICE INHIBITOR



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	49.20Å 92.45Å 100.45Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	500.00 – 2.26 68.03 – 2.26	Depositor EDS
% Data completeness (in resolution range)	(Not available) (500.00-2.26) 98.8 (68.03-2.26)	Depositor EDS
R_{merge}	0.05	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.36 (at 2.10Å)	Xtriage
Refinement program	CNS	Depositor
R, R_{free}	0.228 , 0.272 0.226 , 0.273	Depositor DCC
R_{free} test set	2543 reflections (9.85%)	wwPDB-VP
Wilson B-factor (Å ²)	40.9	Xtriage
Anisotropy	0.479	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 49.9	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	2776	wwPDB-VP
Average B, all atoms (Å ²)	48.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.26% 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: DTT

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	0.87	2/2363 (0.1%)	1.14	21/3204 (0.7%)
2	B	0.80	0/295	1.13	3/402 (0.7%)
All	All	0.86	2/2658 (0.1%)	1.14	24/3606 (0.7%)

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	250	MET	SD-CE	-10.73	1.52	1.79
1	A	215	MET	SD-CE	6.50	1.95	1.79

All (24) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	290	LYS	N-CA-C	-7.60	96.85	109.46
1	A	298	ASN	N-CA-C	-6.89	97.49	108.73
1	A	225	GLU	N-CA-C	-6.55	100.50	110.14
1	A	291	PHE	N-CA-C	6.41	118.81	109.07
1	A	224(A)	GLY	N-CA-C	6.27	122.63	113.48
1	A	311	VAL	N-CA-C	6.23	117.36	112.12
1	A	261	GLU	N-CA-C	6.23	118.59	111.11
2	B	385	VAL	CB-CA-C	-6.05	100.72	110.28
1	A	179(A)	PRO	N-CA-C	-6.04	106.60	114.03
1	A	63	ILE	N-CA-C	-5.71	104.94	110.42
1	A	304	VAL	N-CA-C	-5.71	105.05	110.42
1	A	198	PHE	N-CA-C	-5.67	101.31	110.32
1	A	288	ILE	CB-CA-C	-5.61	103.83	109.33
1	A	152	ARG	N-CA-C	-5.49	105.69	112.38
2	B	393	THR	CB-CA-C	-5.49	109.26	115.79
1	A	231	SER	N-CA-C	-5.42	99.90	108.73
1	A	330	ASP	N-CA-C	5.39	118.87	112.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	54	PRO	CA-C-N	-5.38	113.08	119.05
1	A	54	PRO	C-N-CA	-5.38	113.08	119.05
1	A	112	PHE	N-CA-C	5.37	117.17	108.41
1	A	195	LEU	N-CA-C	-5.36	104.85	111.33
1	A	245	VAL	N-CA-C	-5.20	102.35	109.37
2	B	378	ASP	N-CA-C	-5.14	104.74	111.02
1	A	228	ASN	N-CA-C	-5.13	102.69	110.28

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	2314	0	2240	76	0
2	B	287	0	276	17	0
3	A	8	0	10	0	0
4	A	145	0	0	5	0
4	B	22	0	0	2	0
All	All	2776	0	2526	83	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.

All (83) 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:35:MET:HE3	2:B:382:ILE:HD13	1.33	1.11
1:A:329:VAL:HG22	1:A:355:VAL:HG22	1.42	1.02
1:A:146:ASP:OD2	1:A:148:THR:HB	1.76	0.85
2:B:376:HIS:HB3	2:B:378:ASP:OD1	1.80	0.81
1:A:35:MET:HE3	2:B:382:ILE:CD1	2.09	0.80
1:A:268:THR:HG22	1:A:270:THR:H	1.51	0.76
1:A:119:TYR:O	1:A:182:LEU:HD12	1.85	0.76
1:A:327:VAL:HG12	1:A:358:CYS:SG	2.30	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:297:TYR:O	1:A:333:ILE:HD12	1.92	0.70
1:A:40:GLU:HG2	1:A:306:LEU:HD21	1.75	0.69
1:A:118:VAL:HG12	1:A:182:LEU:HD11	1.77	0.66
2:B:360:VAL:HG11	4:B:210:HOH:O	1.95	0.65
1:A:268:THR:HG22	1:A:270:THR:N	2.13	0.64
4:A:398:HOH:O	2:B:360:VAL:HG23	1.98	0.63
1:A:229:HIS:CE1	2:B:361:THR:HG23	2.35	0.62
1:A:35:MET:HG2	2:B:385:VAL:HG21	1.82	0.62
2:B:361:THR:O	2:B:361:THR:HG22	1.98	0.62
1:A:121:ARG:NH1	1:A:358:CYS:SG	2.64	0.62
1:A:255:PRO:O	2:B:368:HIS:HE1	1.83	0.60
1:A:196:MET:O	1:A:223:MET:HE1	2.00	0.60
1:A:198:PHE:HB2	1:A:342:GLU:CB	2.32	0.60
1:A:121:ARG:HH22	1:A:358:CYS:HB2	1.66	0.59
1:A:168:LYS:HE2	4:A:394:HOH:O	2.02	0.59
2:B:378:ASP:CG	2:B:380:GLY:H	2.12	0.58
1:A:122:TYR:CD1	1:A:123:SER:N	2.72	0.58
1:A:103:ASP:OD2	1:A:110:ILE:N	2.36	0.58
1:A:233:LYS:HA	1:A:236:ASN:OD1	2.04	0.57
1:A:40:GLU:HG3	1:A:306:LEU:HG	1.85	0.57
1:A:308:LEU:HD22	1:A:311:VAL:HG21	1.85	0.57
2:B:378:ASP:CG	2:B:380:GLY:N	2.65	0.55
1:A:121:ARG:HH12	1:A:358:CYS:CB	2.18	0.55
1:A:70:GLY:O	1:A:74:GLU:HG3	2.06	0.55
1:A:179:SER:OG	1:A:179(B):ASP:HB3	2.07	0.54
1:A:221:MET:O	1:A:287:HIS:HA	2.08	0.53
1:A:35:MET:SD	1:A:35:MET:N	2.81	0.53
1:A:110:ILE:HG22	1:A:110:ILE:O	2.09	0.52
1:A:40:GLU:CG	1:A:306:LEU:HD21	2.39	0.52
1:A:354:LEU:C	1:A:354:LEU:HD23	2.35	0.51
1:A:122:TYR:CD1	1:A:122:TYR:C	2.88	0.51
1:A:67:GLY:HA3	1:A:321:MET:HB2	1.93	0.50
2:B:360:VAL:HG13	4:B:145:HOH:O	2.13	0.49
1:A:284:ILE:HG13	2:B:362:ASN:C	2.38	0.49
1:A:37:ILE:HD13	1:A:57:ILE:HG21	1.95	0.49
1:A:170:ASN:HA	1:A:171:PRO:HA	1.73	0.48
1:A:264:GLU:OE2	2:B:387:ARG:HD3	2.14	0.48
1:A:282:MET:SD	2:B:361:THR:CG2	3.02	0.48
1:A:168:LYS:CE	4:A:394:HOH:O	2.59	0.48
1:A:148:THR:HG22	1:A:150:ASP:N	2.29	0.47
1:A:75:GLN:HB3	1:A:308:LEU:HD23	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:178:LEU:HD22	1:A:354:LEU:HD12	1.96	0.47
1:A:69:ASN:HD22	1:A:320:ASN:CG	2.21	0.47
1:A:45:MET:HE3	1:A:48:GLU:OE1	2.15	0.47
1:A:326:ASP:O	1:A:357:ASP:O	2.32	0.47
1:A:354:LEU:HD23	1:A:354:LEU:O	2.15	0.46
1:A:198:PHE:HB2	1:A:342:GLU:HB3	1.97	0.46
1:A:35:MET:HB3	4:A:374:HOH:O	2.16	0.46
1:A:69:ASN:ND2	1:A:320:ASN:OD1	2.47	0.46
1:A:118:VAL:CG1	1:A:182:LEU:HD11	2.45	0.45
1:A:75:GLN:HE22	1:A:310:GLU:HG2	1.82	0.45
1:A:337:TYR:C	1:A:337:TYR:CD1	2.95	0.45
1:A:282:MET:HE2	1:A:282:MET:HB3	1.83	0.44
1:A:121:ARG:NH1	1:A:181:CYS:SG	2.91	0.44
1:A:229:HIS:ND1	2:B:361:THR:HG23	2.33	0.44
1:A:332:MET:HA	1:A:352:CYS:O	2.17	0.44
1:A:130:PHE:CE1	1:A:134:ILE:CD1	3.01	0.44
1:A:327:VAL:HA	1:A:357:ASP:O	2.18	0.43
1:A:121:ARG:NH2	1:A:358:CYS:HB2	2.32	0.43
1:A:261:GLU:O	1:A:265:GLN:HG3	2.19	0.42
1:A:206:TYR:HB3	4:A:486:HOH:O	2.20	0.42
1:A:130:PHE:HB2	1:A:320:ASN:O	2.19	0.42
1:A:135:GLY:C	1:A:141:ASN:H	2.27	0.42
1:A:329:VAL:CG2	1:A:355:VAL:HG22	2.29	0.42
1:A:186:SER:O	1:A:350:ALA:HA	2.20	0.41
1:A:328:SER:O	1:A:356:ALA:N	2.42	0.41
1:A:52:ILE:HA	1:A:336:THR:HG21	2.02	0.41
1:A:77:SER:C	1:A:79:TYR:H	2.29	0.41
1:A:40:GLU:HG3	1:A:306:LEU:CG	2.48	0.41
1:A:114:SER:CB	1:A:188:VAL:HG12	2.50	0.41
1:A:196:MET:HA	1:A:197:PRO:HD3	1.82	0.41
1:A:260:LEU:HD21	2:B:387:ARG:HG3	2.02	0.41
1:A:172:LEU:HD23	1:A:185:ILE:HD13	2.03	0.41
1:A:232:VAL:HG12	1:A:234:GLU:HG2	2.03	0.40
1:A:75:GLN:NE2	1:A:310:GLU:CG	2.84	0.40

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	293/305 (96%)	272 (93%)	18 (6%)	3 (1%)	12	10
2	B	34/36 (94%)	29 (85%)	4 (12%)	1 (3%)	3	1
All	All	327/341 (96%)	301 (92%)	22 (7%)	4 (1%)	10	7

All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	325	SER
1	A	314	SER
1	A	136	ASP
2	B	380	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	263/270 (97%)	251 (95%)	12 (5%)	24	28
2	B	33/33 (100%)	31 (94%)	2 (6%)	17	17
All	All	296/303 (98%)	282 (95%)	14 (5%)	23	26

All (14) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	59	SER
1	A	115	MET

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Mol	Chain	Res	Type
1	A	134	ILE
1	A	136	ASP
1	A	144	THR
1	A	148	THR
1	A	151	CYS
1	A	163	ILE
1	A	195	LEU
1	A	217	ASP
1	A	322	CYS
1	A	342	GLU
2	B	376	HIS
2	B	377	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (5) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	69	ASN
1	A	257	ASN
1	A	320	ASN
2	B	368	HIS
2	B	376	HIS

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](#)

1 ligand is 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	$\# Z > 2$
3	DTT	A	360	-	7,7,7	0.66	0	4,8,8	0.48	0

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	DTT	A	360	-	-	8/8/8/8	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (8) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	360	DTT	S1-C1-C2-O2
3	A	360	DTT	S1-C1-C2-C3
3	A	360	DTT	C1-C2-C3-O3
3	A	360	DTT	C1-C2-C3-C4
3	A	360	DTT	O2-C2-C3-O3
3	A	360	DTT	O2-C2-C3-C4
3	A	360	DTT	C2-C3-C4-S4
3	A	360	DTT	O3-C3-C4-S4

There are no ring outliers.

No monomer is involved in short contacts.

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	297/305 (97%)	0.56	18 (6%) 27 25	19, 45, 75, 93	4 (1%)
2	B	34/36 (94%)	0.92	6 (17%) 4 3	26, 35, 74, 92	1 (2%)
All	All	331/341 (97%)	0.60	24 (7%) 21 19	19, 45, 75, 93	5 (1%)

All (24) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	359	ALA	10.2
2	B	360	VAL	7.6
1	A	81	GLU	6.1
2	B	359(B)	THR	5.1
1	A	358	CYS	5.1
2	B	361	THR	4.3
2	B	359(A)	SER	4.0
1	A	309	THR	4.0
1	A	357	ASP	3.9
1	A	179(A)	PRO	3.2
1	A	80	VAL	3.0
1	A	206	TYR	2.8
1	A	176	PRO	2.6
1	A	150	ASP	2.5
2	B	392	THR	2.4
1	A	178	LEU	2.4
2	B	362	ASN	2.3
1	A	355	VAL	2.3
1	A	322	CYS	2.3
1	A	72	THR	2.3
1	A	36	ASP	2.2
1	A	71	SER	2.1
1	A	122	TYR	2.1
1	A	343	GLU	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
3	DTT	A	360	8/8	0.69	0.34	104,105,107,108	0

6.5 Other polymers [i](#)

There are no such residues in this entry.