



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 8, 2026 – 03:39 PM UTC

PDB ID : 3OSL / pdb_00003osl
Title : Structure of bovine thrombin-activatable fibrinolysis inhibitor in complex with tick carboxypeptidase inhibitor
Authors : Valnickova, Z.; Sanglas, L.; Arolas, J.L.; Petersen, S.V.; Schar, C.; Otzen, D.; Aviles, F.X.; Gomis-Ruth, F.X.; Enghild, J.J.
Deposited on : 2010-09-09
Resolution : 6.00 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
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

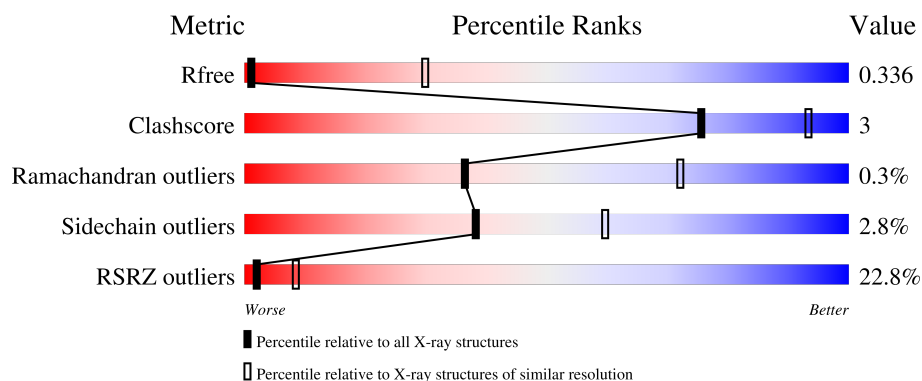
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 6.00 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	1143 (8.00-4.00)
Clashscore	190562	1210 (8.00-4.00)
Ramachandran outliers	187476	1034 (8.00-4.00)
Sidechain outliers	187428	1000 (8.00-4.00)
RSRZ outliers	180081	1136 (8.00-4.00)

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	401	15% 65% 9% 26%
1	C	401	19% 65% 9% 26%
2	B	74	16% 89% 11%
2	D	74	28% 93% 7%

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 5980 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 Carboxypeptidase B2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	296	Total	C	N	O	S	0	6	0
			2456	1579	412	450	15			
1	C	296	Total	C	N	O	S	0	6	0
			2456	1579	412	450	15			

- Molecule 2 is a protein called Carboxypeptidase inhibitor.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	74	Total	C	N	O	S	0	0	0
			533	319	95	107	12			
2	D	74	Total	C	N	O	S	0	0	0
			533	319	95	107	12			

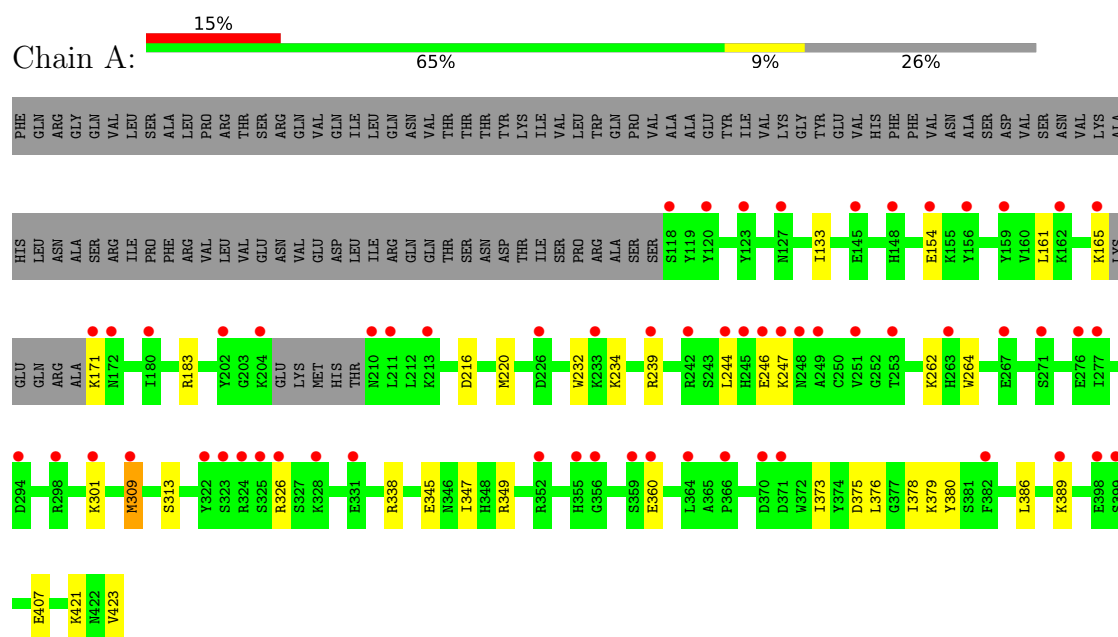
- Molecule 3 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	1	Total	Zn	0	0
			1	1		
3	C	1	Total	Zn	0	0
			1	1		

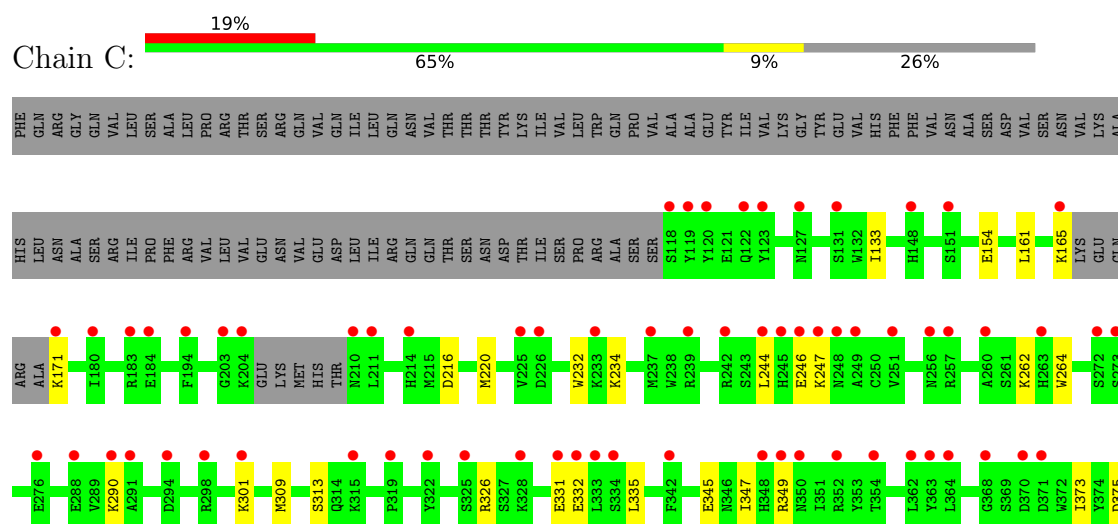
3 Residue-property plots [i](#)

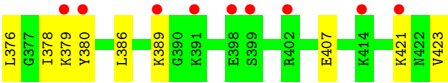
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. 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: Carboxypeptidase B2

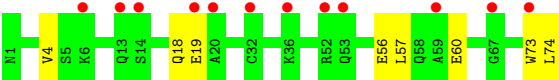
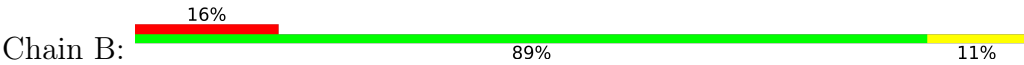


• Molecule 1: Carboxypeptidase B2

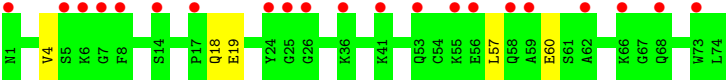




● Molecule 2: Carboxypeptidase inhibitor



● Molecule 2: Carboxypeptidase inhibitor



4 Data and refinement statistics

Property	Value	Source
Space group	P 41 3 2	Depositor
Cell constants a, b, c, α , β , γ	279.10Å 279.10Å 279.10Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	50.00 – 6.00 50.00 – 6.00	Depositor EDS
% Data completeness (in resolution range)	99.8 (50.00-6.00) 99.5 (50.00-6.00)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	10.44 (at 6.13Å)	Xtriage
Refinement program	REFMAC 5.5.0046	Depositor
R, R_{free}	0.313 , 0.320 0.322 , 0.336	Depositor DCC
R_{free} test set	739 reflections (7.58%)	wwPDB-VP
Wilson B-factor (Å ²)	168.0	Xtriage
Anisotropy	0.000	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 98.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.46$, $\langle L^2 \rangle = 0.29$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.77	EDS
Total number of atoms	5980	wwPDB-VP
Average B, all atoms (Å ²)	37.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.05% 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: ZN

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	0.76	1/2555 (0.0%)	0.80	0/3450
1	C	0.76	0/2555	0.80	0/3450
2	B	0.68	0/539	0.81	0/720
2	D	0.68	0/539	0.81	0/720
All	All	0.74	1/6188 (0.0%)	0.80	0/8340

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	309	MET	SD-CE	-5.01	1.67	1.79

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	2456	0	2358	22	37
1	C	2456	0	2358	20	36
2	B	533	0	508	5	1
2	D	533	0	508	2	0
3	A	1	0	0	0	0
3	C	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
All	All	5980	0	5732	35	44

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 3.

All (35) 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:375:ASP:O	1:C:262:LYS:HG2	1.46	1.13
1:A:262:LYS:HG2	1:C:375:ASP:O	1.56	1.06
1:A:239:ARG:NH1	2:B:74:LEU:O	2.15	0.78
1:A:264:TRP:CZ3	1:C:301:LYS:HE3	2.33	0.64
1:A:301:LYS:HE3	1:C:264:TRP:CZ3	2.33	0.63
1:A:375:ASP:O	1:C:262:LYS:CG	2.38	0.56
1:A:232:TRP:CZ3	2:B:4:VAL:HG11	2.40	0.56
1:C:171:LYS:HD2	1:C:216:ASP:OD2	2.09	0.53
1:A:171:LYS:HD2	1:A:216:ASP:OD2	2.09	0.52
1:A:375:ASP:HA	1:C:262:LYS:HE2	1.92	0.51
1:C:133:ILE:HG23	1:C:161:LEU:HD21	1.95	0.49
1:A:264:TRP:CZ3	1:C:301:LYS:CE	2.97	0.48
1:A:133:ILE:HG23	1:A:161:LEU:HD21	1.95	0.48
1:C:232:TRP:CZ3	2:D:4:VAL:HG11	2.50	0.46
1:A:232:TRP:CH2	2:B:4:VAL:HG11	2.52	0.46
1:C:379:LYS:HE3	1:C:380:TYR:CZ	2.51	0.46
1:A:309:MET:HE1	1:A:386:LEU:HD21	1.98	0.45
2:B:57:LEU:HD22	2:B:60:GLU:HG2	1.98	0.45
1:A:171:LYS:O	1:A:171:LYS:HG3	2.17	0.45
1:C:171:LYS:O	1:C:171:LYS:HG3	2.17	0.45
1:A:379:LYS:HE3	1:A:380:TYR:CZ	2.51	0.45
1:A:301:LYS:CE	1:C:264:TRP:CZ3	2.98	0.44
2:D:57:LEU:HD22	2:D:60:GLU:HG2	1.98	0.44
1:C:309:MET:HE1	1:C:386:LEU:HD21	1.98	0.44
1:A:347:ILE:HD11	1:A:407:GLU:HA	2.00	0.43
1:C:347:ILE:HD11	1:C:407:GLU:HA	2.01	0.43
1:C:309:MET:CE	1:C:386:LEU:HD21	2.49	0.43
1:A:309:MET:CE	1:A:386:LEU:HD21	2.49	0.42
1:C:290:LYS:HA	1:C:290:LYS:HD3	1.93	0.42
1:C:373:ILE:CG1	1:C:378:ILE:HD12	2.50	0.42
1:C:345:GLU:O	1:C:349:ARG:HD3	2.20	0.41
1:A:183:ARG:NH2	2:B:73:TRP:O	2.48	0.41
1:A:345:GLU:O	1:A:349:ARG:HD3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:373:ILE:CG1	1:A:378:ILE:HD12	2.50	0.41
1:A:262:LYS:HE2	1:C:375:ASP:HA	2.02	0.40

All (44) 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:360:GLU:OE1	1:A:360:GLU:OE1[18_545]	0.49	1.71
1:C:331:GLU:OE2	1:C:332:GLU:CG[18_545]	0.70	1.50
1:A:154:GLU:OE1	1:C:246:GLU:OE2[9_555]	0.75	1.45
1:A:360:GLU:OE2	1:A:360:GLU:OE2[18_545]	0.79	1.41
1:A:246:GLU:OE2	1:C:154:GLU:OE1[9_555]	0.82	1.38
1:A:360:GLU:CD	1:A:360:GLU:CD[18_545]	0.85	1.35
1:A:244:LEU:CD2	1:C:244:LEU:CB[9_555]	0.89	1.31
1:A:244:LEU:CB	1:C:244:LEU:CD2[9_555]	0.96	1.24
1:A:360:GLU:CD	1:A:360:GLU:OE2[18_545]	0.99	1.21
1:A:244:LEU:CG	1:C:244:LEU:CD2[9_555]	1.09	1.11
1:A:244:LEU:CD2	1:C:244:LEU:CG[9_555]	1.10	1.10
1:C:335:LEU:CD1	1:C:335:LEU:CD1[18_545]	1.10	1.10
1:A:246:GLU:CG	1:C:154:GLU:CD[9_555]	1.12	1.08
1:C:331:GLU:CD	1:C:332:GLU:CG[18_545]	1.17	1.03
1:A:154:GLU:CD	1:C:246:GLU:CG[9_555]	1.25	0.95
1:A:244:LEU:CG	1:C:244:LEU:CG[9_555]	1.26	0.94
1:A:360:GLU:CD	1:A:360:GLU:OE1[18_545]	1.26	0.94
1:A:246:GLU:CD	1:C:154:GLU:OE1[9_555]	1.29	0.91
1:A:154:GLU:OE1	1:C:246:GLU:CD[9_555]	1.34	0.86
1:A:246:GLU:CG	1:C:154:GLU:OE2[9_555]	1.37	0.83
1:A:154:GLU:OE2	1:C:246:GLU:CG[9_555]	1.41	0.79
1:C:331:GLU:OE1	1:C:332:GLU:CD[18_545]	1.42	0.78
1:C:331:GLU:OE1	1:C:332:GLU:OE1[18_545]	1.46	0.74
1:A:246:GLU:CD	1:C:154:GLU:CD[9_555]	1.49	0.71
1:A:154:GLU:CD	1:C:246:GLU:CD[9_555]	1.52	0.68
1:A:244:LEU:CD2	1:C:244:LEU:CA[9_555]	1.68	0.52
1:A:244:LEU:CG	1:C:244:LEU:CB[9_555]	1.68	0.52
1:A:154:GLU:CD	1:C:246:GLU:OE2[9_555]	1.71	0.49
1:A:244:LEU:CA	1:C:244:LEU:CD2[9_555]	1.71	0.49
1:A:244:LEU:CB	1:C:244:LEU:CG[9_555]	1.71	0.49
1:C:331:GLU:OE1	1:C:332:GLU:CG[18_545]	1.73	0.47
1:A:246:GLU:OE2	1:C:154:GLU:CD[9_555]	1.74	0.46
1:A:360:GLU:CG	1:A:360:GLU:OE2[18_545]	1.80	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:331:GLU:CD	1:C:332:GLU:CD[18_545]	1.80	0.40
1:A:246:GLU:CG	1:C:154:GLU:OE1[9_555]	1.89	0.31
1:A:246:GLU:CG	1:C:154:GLU:CG[9_555]	1.95	0.25
1:A:246:GLU:CD	1:C:154:GLU:CG[9_555]	1.96	0.24
1:A:154:GLU:OE1	1:C:246:GLU:CG[9_555]	1.97	0.23
1:A:247:LYS:O	1:C:234:LYS:NZ[9_555]	1.99	0.21
1:A:154:GLU:CG	1:C:246:GLU:CD[9_555]	2.05	0.15
1:A:154:GLU:CG	1:C:246:GLU:CG[9_555]	2.07	0.13
1:A:234:LYS:NZ	1:C:247:LYS:O[9_555]	2.07	0.13
1:A:338:ARG:NH1	2:B:56:GLU:OE2[18_545]	2.11	0.09
1:A:360:GLU:OE1	1:A:360:GLU:OE2[18_545]	2.17	0.03

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	296/401 (74%)	283 (96%)	12 (4%)	1 (0%)	36	72
1	C	296/401 (74%)	283 (96%)	12 (4%)	1 (0%)	36	72
2	B	72/74 (97%)	70 (97%)	2 (3%)	0	100	100
2	D	72/74 (97%)	70 (97%)	2 (3%)	0	100	100
All	All	736/950 (78%)	706 (96%)	28 (4%)	2 (0%)	36	72

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	313	SER
1	C	313	SER

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	269/358 (75%)	261 (97%)	8 (3%)	36	57
1	C	269/358 (75%)	261 (97%)	8 (3%)	36	57
2	B	61/61 (100%)	59 (97%)	2 (3%)	33	55
2	D	61/61 (100%)	59 (97%)	2 (3%)	33	55
All	All	660/838 (79%)	640 (97%)	20 (3%)	38	57

All (20) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	165	LYS
1	A	220	MET
1	A	326[A]	ARG
1	A	326[B]	ARG
1	A	376	LEU
1	A	389	LYS
1	A	421	LYS
1	A	423	VAL
2	B	18	GLN
2	B	19	GLU
1	C	165	LYS
1	C	220	MET
1	C	326[A]	ARG
1	C	326[B]	ARG
1	C	376	LEU
1	C	389	LYS
1	C	421	LYS
1	C	423	VAL
2	D	18	GLN
2	D	19	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (14) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	122	GLN
1	A	127	ASN
1	A	172	ASN
1	A	248	ASN
1	A	263	HIS
1	A	350	ASN
2	B	18	GLN
1	C	122	GLN
1	C	127	ASN
1	C	172	ASN
1	C	248	ASN
1	C	263	HIS
1	C	350	ASN
2	D	18	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](#)

Of 2 ligands modelled in this entry, 2 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

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	296/401 (73%)	1.23	60 (20%) 3 9	17, 34, 65, 91	6 (2%)
1	C	296/401 (73%)	1.31	76 (25%) 1 7	17, 33, 70, 95	6 (2%)
2	B	74/74 (100%)	0.84	12 (16%) 4 12	17, 23, 30, 36	0
2	D	74/74 (100%)	1.41	21 (28%) 1 7	41, 50, 56, 65	0
All	All	740/950 (77%)	1.24	169 (22%) 2 8	17, 34, 64, 95	12 (1%)

All (169) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	210	ASN	8.3
1	A	210	ASN	8.2
1	C	171	LYS	6.3
1	A	263	HIS	6.3
1	A	165	LYS	6.1
1	A	244	LEU	6.0
1	C	331	GLU	6.0
1	A	171	LYS	5.6
1	A	204	LYS	5.5
1	C	328	LYS	5.5
1	C	244	LEU	5.4
2	D	41	LYS	5.4
2	D	73	TRP	5.3
1	A	364	LEU	5.2
1	A	360	GLU	5.2
1	C	118	SER	5.1
1	A	389	LYS	5.0
1	A	118	SER	4.9
1	C	165	LYS	4.9
1	C	263	HIS	4.8
1	A	159	TYR	4.7

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Mol	Chain	Res	Type	RSRZ
1	A	267	GLU	4.6
1	C	251	VAL	4.6
1	A	251	VAL	4.5
1	C	363	TYR	4.5
1	C	246	GLU	4.4
2	D	7	GLY	4.3
2	D	17	PRO	4.2
1	C	226	ASP	4.1
1	A	294	ASP	4.1
1	C	389	LYS	4.0
1	C	352	ARG	4.0
1	A	277	ILE	3.9
1	C	332	GLU	3.9
1	C	204	LYS	3.8
1	A	246	GLU	3.8
1	A	399	SER	3.8
1	C	131	SER	3.6
1	A	398[A]	GLU	3.6
1	A	298	ARG	3.6
1	C	203	GLY	3.6
1	C	325	SER	3.6
1	C	247	LYS	3.5
1	A	324	ARG	3.5
2	D	5	SER	3.5
2	B	53	GLN	3.4
1	C	298	ARG	3.4
1	C	399	SER	3.4
2	D	24	TYR	3.4
1	A	242	ARG	3.4
1	A	370	ASP	3.4
2	B	32	CYS	3.4
1	C	349	ARG	3.3
1	C	364	LEU	3.3
2	D	14	SER	3.2
2	B	36	LYS	3.2
1	A	249	ALA	3.2
1	A	371	ASP	3.2
1	A	322	TYR	3.2
1	C	294	ASP	3.2
2	D	53	GLN	3.2
2	B	73	TRP	3.1
1	C	354	THR	3.1

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Mol	Chain	Res	Type	RSRZ
2	D	66	LYS	3.1
1	C	242	ARG	3.1
1	A	162	LYS	3.1
1	A	226	ASP	3.0
1	C	319	PRO	3.0
1	C	380	TYR	3.0
1	C	334	SER	3.0
1	C	257	ARG	3.0
1	C	379	LYS	2.9
1	A	247	LYS	2.9
1	A	325	SER	2.9
1	C	414	LYS	2.9
2	B	13	GLN	2.9
1	C	245	HIS	2.9
1	C	248	ASN	2.9
1	A	145	GLU	2.8
1	C	122	GLN	2.8
2	D	1	ASN	2.8
1	C	127	ASN	2.8
1	C	233	LYS	2.8
1	A	276	GLU	2.7
1	C	348	HIS	2.7
1	C	183	ARG	2.7
1	C	350	ASN	2.7
1	C	260	ALA	2.7
1	C	249	ALA	2.7
1	C	119	TYR	2.7
2	D	58	GLN	2.7
1	A	309	MET	2.6
1	A	356	GLY	2.6
1	A	271	SER	2.6
1	A	120	TYR	2.6
1	C	301	LYS	2.6
1	C	256	ASN	2.6
1	A	328	LYS	2.6
1	A	156	TYR	2.6
1	A	245	HIS	2.6
1	C	290	LYS	2.6
1	A	148	HIS	2.6
1	A	301	LYS	2.6
2	B	19	GLU	2.6
2	D	68	GLN	2.5

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Mol	Chain	Res	Type	RSRZ
2	B	67	GLY	2.5
1	C	237	MET	2.5
1	C	123	TYR	2.5
1	C	342	PHE	2.5
2	D	25	GLY	2.5
1	A	123	TYR	2.5
1	C	398[A]	GLU	2.5
1	C	370	ASP	2.5
2	B	52	ARG	2.5
1	C	272	SER	2.4
1	A	366	PRO	2.4
1	A	233	LYS	2.4
1	C	322	TYR	2.4
1	C	288	GLU	2.4
1	C	184	GLU	2.4
2	D	6	LYS	2.4
1	A	180	ILE	2.4
1	A	213	LYS	2.4
1	C	120	TYR	2.4
1	C	391	LYS	2.4
1	A	127	ASN	2.4
2	B	59	ALA	2.3
1	C	273	SER	2.3
1	C	402	ARG	2.3
1	C	151	SER	2.3
1	A	355	HIS	2.3
1	C	180	ILE	2.3
1	C	225	VAL	2.3
2	D	26	GLY	2.3
2	D	62	ALA	2.3
1	C	333	LEU	2.3
1	A	239	ARG	2.3
1	A	352	ARG	2.3
1	A	154	GLU	2.2
2	D	56	GLU	2.2
1	A	202	TYR	2.2
1	A	382	PHE	2.2
1	C	368	GLY	2.2
2	B	14	SER	2.2
2	B	20	ALA	2.2
1	C	211	LEU	2.2
1	C	362	LEU	2.2

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Mol	Chain	Res	Type	RSRZ
1	C	214	HIS	2.2
1	A	211	LEU	2.2
1	A	248	ASN	2.2
1	A	326[A]	ARG	2.2
1	C	194	PHE	2.1
1	C	291	ALA	2.1
1	C	371	ASP	2.1
1	A	172	ASN	2.1
1	C	148	HIS	2.1
2	B	6	LYS	2.1
1	C	421	LYS	2.1
2	D	8	PHE	2.1
1	A	323	SER	2.1
2	D	55	LYS	2.1
2	D	59	ALA	2.1
1	A	359	SER	2.1
1	C	276	GLU	2.1
2	D	36	LYS	2.0
1	C	239	ARG	2.0
1	A	253	THR	2.0
1	A	331	GLU	2.0
1	C	315	LYS	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(Å ²)	Q<0.9
3	ZN	A	999	1/1	1.00	0.15	22,22,22,22	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
3	ZN	C	999	1/1	1.00	0.12	20,20,20,20	0

6.5 Other polymers [i](#)

There are no such residues in this entry.