



Full wwPDB X-ray Structure Validation Report ⓘ

Oct 1, 2017 – 06:54 AM EDT

PDB ID : 1LVN
Title : CRYSTAL STRUCTURE OF E. COLI AMINE OXIDASE COMPLEXED WITH TRANYLCPROMINE
Authors : Wilmot, C.M.; Phillips, S.E.
Deposited on : unknown
Resolution : 2.40 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

<http://wwpdb.org/validation/2016/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

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

MolProbity : 4.02b-467
Mogul : 1.7.2 (RC1), CSD as538be (2017)
Xtriage (Phenix) : 1.9-1692
EDS : rb-20030345
Percentile statistics : 20161228.v01 (using entries in the PDB archive December 28th 2016)
Refmac : 5.8.0135
CCP4 : 6.5.0
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : rb-20030345

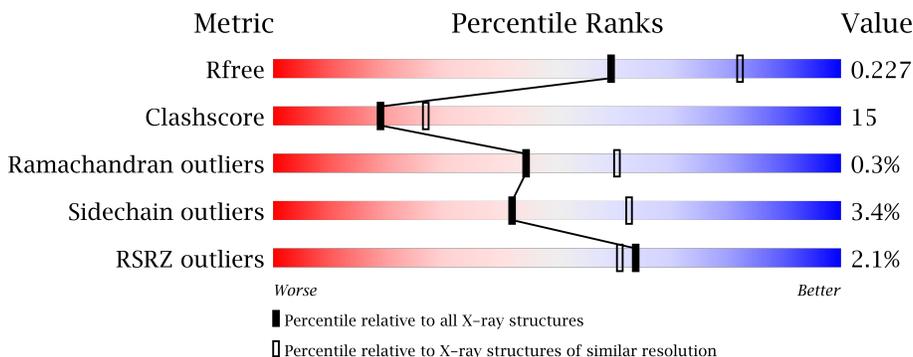
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.40 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}	100719	3166 (2.40-2.40)
Clashscore	112137	3674 (2.40-2.40)
Ramachandran outliers	110173	3616 (2.40-2.40)
Sidechain outliers	110143	3617 (2.40-2.40)
RSRZ outliers	101464	3195 (2.40-2.40)

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 on the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. 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	727	 .% 74% 23% ..
1	B	727	 3% 69% 28% ..

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 12818 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 Copper amine oxidase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	718	5673	3611	965	1075	22	0	0	0
1	B	720	5692	3623	970	1077	22	0	0	0

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	466	TYT	TYR	MODIFIED RESIDUE	UNP P46883
B	466	TYT	TYR	MODIFIED RESIDUE	UNP P46883

- Molecule 2 is COPPER (II) ION (three-letter code: CU) (formula: Cu).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	B	1	Total	Cu	0	0
			1	1		
2	A	1	Total	Cu	0	0
			1	1		

- Molecule 3 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	B	2	Total	Ca	0	0
			2	2		
3	A	2	Total	Ca	0	0
			2	2		

- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	749	Total	O	0	0
			749	749		

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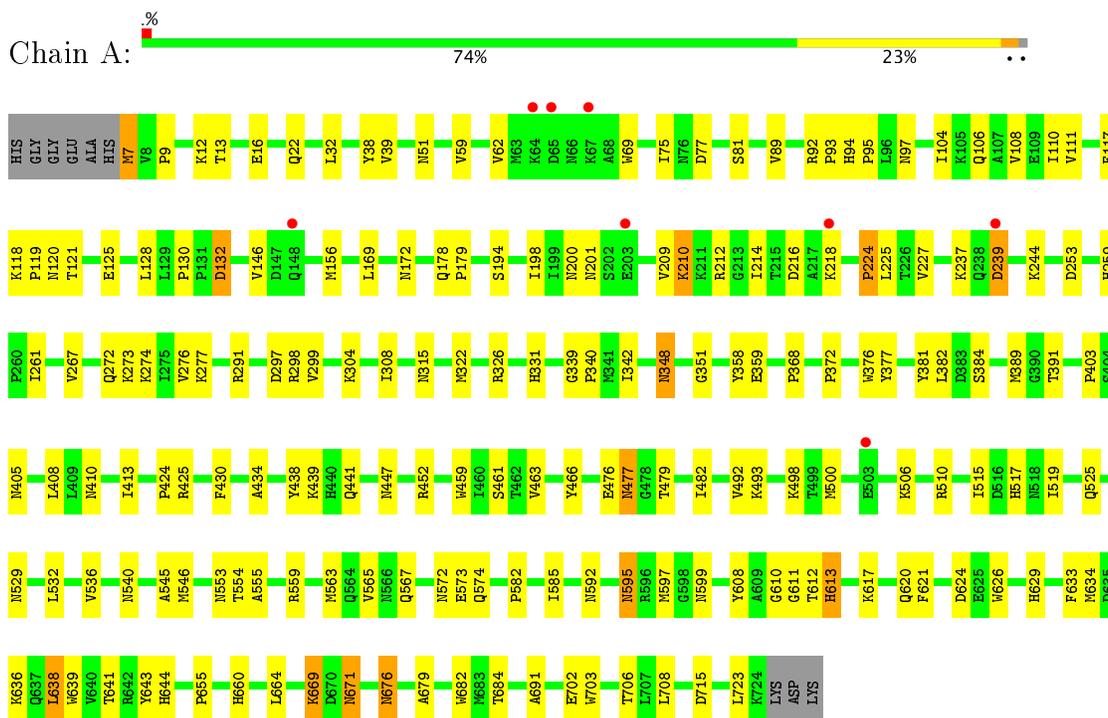
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	B	698	Total 698	O 698	0	0

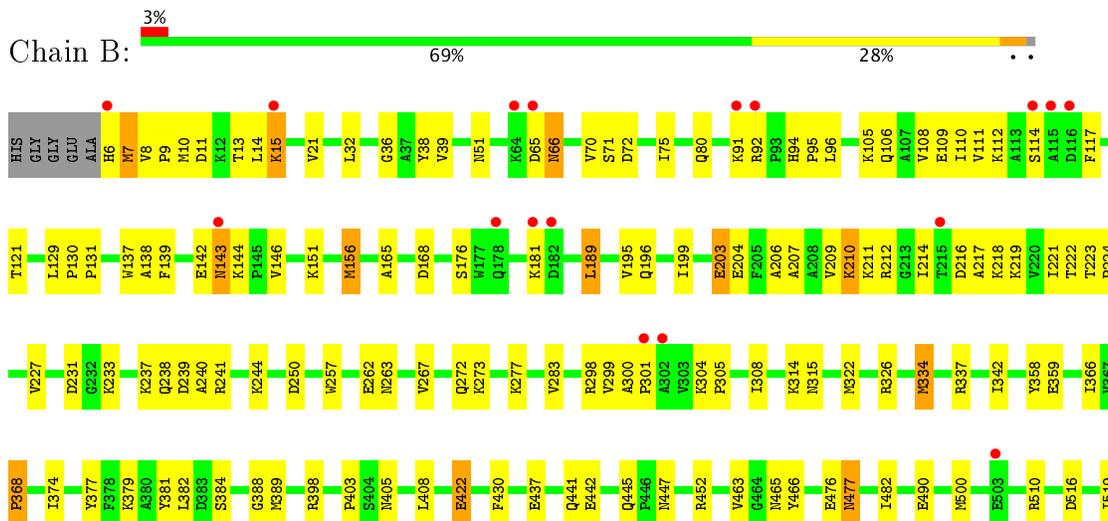
3 Residue-property plots [i](#)

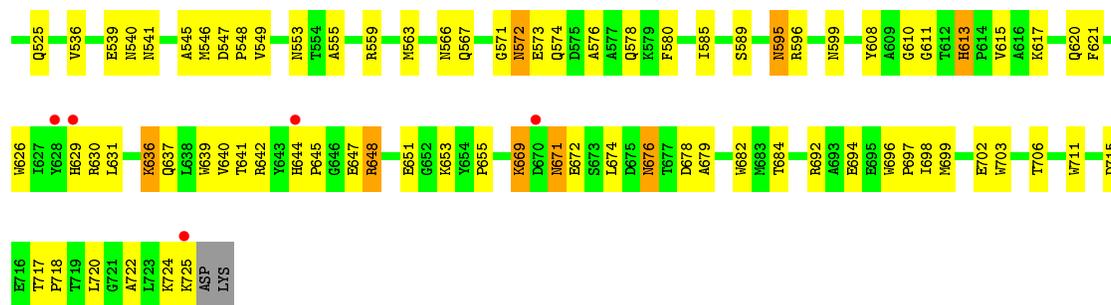
These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are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



- Molecule 1: Copper amine oxidase





4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	135.24Å 166.48Å 79.63Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	20.00 – 2.40 18.57 – 2.39	Depositor EDS
% Data completeness (in resolution range)	89.4 (20.00-2.40) 89.2 (18.57-2.39)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.22 (at 2.38Å)	Xtrriage
Refinement program	CNS	Depositor
R, R_{free}	0.185 , 0.229 0.187 , 0.227	Depositor DCC
R_{free} test set	2236 reflections (3.66%)	DCC
Wilson B-factor (Å ²)	26.2	Xtrriage
Anisotropy	0.794	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 63.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	12818	wwPDB-VP
Average B, all atoms (Å ²)	30.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.98% 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: TYT, CA, CU

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	0.40	0/5793	0.73	0/7886
1	B	0.39	0/5813	0.72	0/7912
All	All	0.39	0/11606	0.72	0/15798

There are no bond length outliers.

There are no bond angle outliers.

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	5673	0	5546	155	0
1	B	5692	0	5566	198	0
2	A	1	0	0	0	0
2	B	1	0	0	0	0
3	A	2	0	0	0	0
3	B	2	0	0	0	0
4	A	749	0	0	14	0
4	B	698	0	0	15	0
All	All	12818	0	11112	330	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 15.

All (330) 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:669:LYS:HA	1:B:669:LYS:HE3	1.52	0.91
1:B:92:ARG:HB2	1:B:92:ARG:HH11	1.36	0.89
1:B:525:GLN:HE22	1:B:620:GLN:H	1.19	0.88
1:A:297:ASP:HB2	1:B:725:LYS:HE3	1.55	0.88
1:B:322:MET:HG3	4:B:2346:HOH:O	1.73	0.87
1:A:304:LYS:H	1:B:315:ASN:HD21	1.19	0.87
1:B:227:VAL:HG12	1:B:244:LYS:HG3	1.55	0.86
1:B:15:LYS:NZ	1:B:21:VAL:H	1.74	0.86
1:B:203:GLU:H	1:B:203:GLU:CD	1.80	0.82
1:B:92:ARG:HB2	1:B:92:ARG:NH1	1.93	0.82
1:B:233:LYS:NZ	1:B:233:LYS:HB3	1.92	0.82
1:A:525:GLN:HE22	1:A:620:GLN:H	1.27	0.82
1:B:95:PRO:HB3	1:B:146:VAL:HG21	1.62	0.82
1:A:297:ASP:CB	1:B:725:LYS:HE3	2.10	0.81
1:B:223:THR:HB	1:B:466:TYT:H15	1.61	0.80
1:A:77:ASP:O	1:A:81:SER:HB3	1.81	0.79
1:A:540:ASN:HB3	1:A:676:ASN:ND2	2.00	0.77
1:A:227:VAL:HG12	1:A:244:LYS:HG3	1.64	0.77
1:B:210:LYS:HE3	1:B:217:ALA:HB2	1.67	0.75
1:B:525:GLN:NE2	1:B:620:GLN:H	1.85	0.74
1:A:592:ASN:HD21	1:A:676:ASN:HD21	1.33	0.74
1:B:368:PRO:HB2	1:B:621:PHE:CZ	2.21	0.74
1:B:644:HIS:HB3	4:B:2305:HOH:O	1.86	0.74
1:A:463:VAL:HG12	1:A:466:TYT:H12	1.69	0.74
1:A:315:ASN:HD21	1:B:304:LYS:H	1.32	0.74
1:B:15:LYS:HZ2	1:B:21:VAL:H	1.34	0.74
1:B:38:TYR:H	1:B:51:ASN:ND2	1.87	0.73
1:A:38:TYR:H	1:A:51:ASN:ND2	1.86	0.73
1:B:8:VAL:HG12	1:B:9:PRO:HD2	1.70	0.72
1:B:580:PHE:H	1:B:637:GLN:HE21	1.36	0.72
1:B:38:TYR:H	1:B:51:ASN:HD21	1.37	0.72
1:A:553:ASN:ND2	1:A:555:ALA:H	1.86	0.72
1:B:463:VAL:HG12	1:B:466:TYT:H10	1.73	0.71
1:B:92:ARG:CB	1:B:92:ARG:HH11	2.02	0.71
1:B:15:LYS:HZ2	1:B:21:VAL:N	1.89	0.70
1:A:299:VAL:HG23	1:B:724:LYS:HG3	1.72	0.70
1:A:639:TRP:HB2	1:A:682:TRP:HB2	1.72	0.70
1:A:38:TYR:H	1:A:51:ASN:HD21	1.36	0.70
1:A:525:GLN:NE2	1:A:620:GLN:H	1.89	0.70
1:B:92:ARG:HD3	4:B:2446:HOH:O	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:359:GLU:OE1	1:B:648:ARG:NH2	2.26	0.69
1:B:227:VAL:CG1	1:B:244:LYS:HG3	2.23	0.68
1:B:368:PRO:HB2	1:B:621:PHE:HZ	1.58	0.68
1:B:212:ARG:HG2	1:B:283:VAL:HG22	1.76	0.67
1:B:679:ALA:HB2	4:B:2363:HOH:O	1.95	0.67
1:A:572:ASN:HB2	1:A:671:ASN:ND2	2.10	0.67
1:A:358:TYR:CD2	1:A:359:GLU:HG3	2.30	0.67
1:A:7:MET:CE	1:A:59:VAL:HG11	2.26	0.65
1:A:382:LEU:HD13	1:A:655:PRO:HB2	1.78	0.65
1:A:626:TRP:HA	1:A:629:HIS:ND1	2.12	0.65
1:B:233:LYS:HZ2	1:B:233:LYS:HB3	1.62	0.65
1:B:196:GLN:HE22	1:B:222:THR:H	1.45	0.64
1:A:382:LEU:CD1	1:A:655:PRO:HB2	2.28	0.64
1:B:8:VAL:CG1	1:B:9:PRO:HD2	2.27	0.64
1:A:500:MET:HG3	1:B:599:ASN:ND2	2.12	0.63
1:B:553:ASN:ND2	1:B:555:ALA:H	1.97	0.63
1:B:189:LEU:O	1:B:189:LEU:HD22	1.98	0.63
1:B:224:PRO:HD2	1:B:466:TYT:C15	2.29	0.63
1:B:359:GLU:CD	1:B:648:ARG:HH22	2.02	0.63
1:B:669:LYS:CA	1:B:669:LYS:HE3	2.29	0.62
1:B:214:ILE:HD12	1:B:214:ILE:N	2.14	0.62
1:A:7:MET:HE2	1:A:59:VAL:HG11	1.80	0.62
1:B:546:MET:HB2	1:B:585:ILE:HB	1.82	0.62
1:B:642:ARG:HD2	1:B:672:GLU:HB3	1.82	0.62
1:A:216:ASP:OD2	1:A:218:LYS:HB2	1.99	0.62
1:B:94:HIS:HD2	1:B:96:LEU:H	1.46	0.62
1:A:227:VAL:CG1	1:A:244:LYS:HG3	2.31	0.61
1:A:439:LYS:HZ2	1:A:447:ASN:HD21	1.49	0.60
1:B:381:TYR:N	1:B:381:TYR:CD2	2.69	0.60
1:B:143:ASN:CG	1:B:143:ASN:O	2.40	0.60
1:B:639:TRP:HB2	1:B:682:TRP:HB2	1.84	0.59
1:A:638:LEU:HD22	1:A:639:TRP:N	2.17	0.59
1:B:13:THR:HG22	1:B:75:ILE:HD11	1.82	0.59
1:B:237:LYS:HE2	1:B:240:ALA:H	1.67	0.59
1:B:94:HIS:CD2	1:B:96:LEU:H	2.20	0.59
1:A:209:VAL:HG13	1:A:214:ILE:HD12	1.85	0.58
1:A:214:ILE:HD11	1:A:261:ILE:HD13	1.84	0.58
1:A:237:LYS:HG2	4:A:1337:HOH:O	2.04	0.58
1:A:441:GLN:OE1	1:A:447:ASN:HB2	2.04	0.58
1:A:119:PRO:O	1:A:120:ASN:HB2	2.03	0.57
1:B:613:HIS:CE1	1:B:702:GLU:HG3	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:9:PRO:HB2	4:A:1819:HOH:O	2.04	0.57
1:A:608:TYR:HE2	1:B:608:TYR:HE2	1.53	0.57
1:B:10:MET:HG3	1:B:70:VAL:HG13	1.85	0.57
1:A:291:ARG:NH2	1:B:596:ARG:HH12	2.03	0.57
1:B:629:HIS:CD2	4:B:2432:HOH:O	2.59	0.56
1:A:225:LEU:HD22	1:A:381:TYR:CE2	2.41	0.56
1:B:342:ILE:O	1:B:359:GLU:HA	2.06	0.56
1:B:10:MET:HG3	1:B:70:VAL:CG1	2.36	0.56
1:A:439:LYS:NZ	1:A:447:ASN:ND2	2.54	0.56
1:A:342:ILE:HD12	1:A:342:ILE:N	2.21	0.56
1:A:403:PRO:HG3	1:A:430:PHE:CD2	2.42	0.55
1:A:498:LYS:O	1:A:517:HIS:HD2	1.89	0.55
1:B:233:LYS:CB	1:B:233:LYS:NZ	2.69	0.55
1:B:105:LYS:O	1:B:109:GLU:HG3	2.07	0.54
1:B:642:ARG:HD2	1:B:672:GLU:CB	2.37	0.54
1:B:216:ASP:OD1	1:B:218:LYS:HE2	2.07	0.54
1:A:214:ILE:CD1	1:A:261:ILE:HD13	2.36	0.54
1:B:490:GLU:HG3	1:B:699:MET:SD	2.48	0.54
1:B:108:VAL:O	1:B:112:LYS:HG3	2.08	0.54
1:B:165:ALA:HA	1:B:176:SER:O	2.07	0.54
1:B:358:TYR:CD2	1:B:359:GLU:HG2	2.43	0.54
1:B:366:ILE:HD12	1:B:631:LEU:CD1	2.38	0.54
1:A:477:ASN:HD22	1:A:477:ASN:C	2.11	0.53
1:A:12:LYS:O	1:A:16:GLU:HB2	2.07	0.53
1:A:610:GLY:HA3	1:B:610:GLY:HA3	1.91	0.53
1:B:233:LYS:HZ3	1:B:233:LYS:HB3	1.71	0.53
1:B:644:HIS:HB2	1:B:647:GLU:HG3	1.91	0.53
1:A:291:ARG:HH22	1:B:596:ARG:HH12	1.57	0.53
1:A:620:GLN:HB2	1:B:563:MET:HE2	1.91	0.53
1:A:574:GLN:H	1:A:671:ASN:ND2	2.07	0.53
1:A:348:ASN:HD22	1:A:348:ASN:C	2.13	0.52
1:A:104:ILE:O	1:A:108:VAL:HG23	2.10	0.52
1:A:611:GLY:HA3	4:A:1229:HOH:O	2.10	0.52
1:B:384:SER:HA	1:B:389:MET:HG3	1.92	0.52
1:B:717:THR:HB	1:B:720:LEU:HG	1.90	0.52
1:B:95:PRO:HB3	1:B:146:VAL:CG2	2.35	0.52
1:A:572:ASN:CG	1:A:671:ASN:HD21	2.13	0.52
1:A:723:LEU:HD23	1:B:298:ARG:HD3	1.92	0.52
1:B:129:LEU:HB3	1:B:151:LYS:HB2	1.92	0.51
1:B:207:ALA:O	1:B:211:LYS:HG2	2.10	0.51
1:B:111:VAL:O	1:B:114:SER:HB3	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:366:ILE:HA	1:B:381:TYR:O	2.10	0.51
1:A:482:ILE:HB	1:A:706:THR:OG1	2.10	0.51
1:B:15:LYS:HZ3	1:B:21:VAL:HB	1.75	0.51
1:B:8:VAL:HG12	1:B:9:PRO:CD	2.41	0.51
1:A:408:LEU:HD12	1:A:425:ARG:HD2	1.92	0.51
1:B:111:VAL:O	1:B:117:PHE:HB2	2.10	0.51
1:A:272:GLN:HE21	1:A:274:LYS:HD3	1.75	0.51
1:A:679:ALA:HB2	4:A:1774:HOH:O	2.10	0.51
1:B:263:ASN:HA	1:B:374:ILE:HD11	1.93	0.51
1:B:477:ASN:HD22	1:B:477:ASN:C	2.12	0.51
1:A:201:ASN:HD22	1:A:201:ASN:N	2.07	0.51
1:B:379:LYS:HG2	1:B:381:TYR:OH	2.11	0.51
1:B:15:LYS:NZ	1:B:21:VAL:N	2.48	0.50
1:B:36:GLY:HA2	1:B:314:LYS:HE2	1.94	0.50
1:B:580:PHE:H	1:B:637:GLN:NE2	2.06	0.50
1:A:559:ARG:HG2	1:B:377:TYR:HB2	1.93	0.50
1:A:597:MET:SD	1:B:516:ASP:HA	2.53	0.49
1:A:322:MET:HE1	4:A:1344:HOH:O	2.11	0.49
1:A:546:MET:HB2	1:A:585:ILE:HB	1.95	0.49
1:A:13:THR:HG22	1:A:75:ILE:HD11	1.94	0.49
1:A:500:MET:HG3	1:B:599:ASN:HD21	1.77	0.49
1:A:563:MET:HE2	1:B:620:GLN:HB2	1.95	0.49
1:A:439:LYS:HZ2	1:A:447:ASN:ND2	2.11	0.49
1:A:117:PHE:CZ	1:A:121:THR:HB	2.48	0.49
1:A:599:ASN:ND2	1:B:500:MET:HG3	2.27	0.49
1:A:89:VAL:HG12	4:A:1323:HOH:O	2.12	0.49
1:A:624:ASP:O	1:A:629:HIS:HE1	1.96	0.48
1:B:241:ARG:HG3	1:B:241:ARG:HH11	1.78	0.48
1:A:595:ASN:HB2	1:A:715:ASP:OD1	2.12	0.48
1:B:206:ALA:O	1:B:210:LYS:HD2	2.13	0.48
1:B:227:VAL:HG12	1:B:244:LYS:CG	2.36	0.48
1:B:92:ARG:HD2	4:B:2598:HOH:O	2.13	0.48
1:A:384:SER:HA	1:A:389:MET:HG3	1.95	0.48
1:B:206:ALA:O	1:B:210:LYS:CD	2.61	0.48
1:A:308:ILE:O	1:A:405:ASN:HB3	2.13	0.48
1:A:94:HIS:HB3	1:A:97:ASN:ND2	2.28	0.48
1:A:209:VAL:HG13	1:A:214:ILE:CD1	2.44	0.48
1:B:637:GLN:HA	1:B:684:THR:HB	1.96	0.48
1:B:6:HIS:HB3	1:B:72:ASP:OD2	2.14	0.48
1:B:576:ALA:O	1:B:578:GLN:HG2	2.13	0.48
1:A:376:TRP:CZ2	1:A:493:LYS:HB2	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:299:VAL:O	1:B:301:PRO:HD3	2.14	0.47
1:B:91:LYS:HE3	4:B:2600:HOH:O	2.14	0.47
1:A:62:VAL:O	1:A:69:TRP:N	2.42	0.47
1:A:368:PRO:HG3	1:A:634:MET:CE	2.44	0.47
1:B:10:MET:HG2	1:B:14:LEU:HD12	1.96	0.47
1:A:214:ILE:HD11	1:A:261:ILE:CD1	2.45	0.47
1:A:267:VAL:HB	1:A:277:LYS:HB3	1.97	0.47
1:A:633:PHE:HB2	1:A:664:LEU:HD12	1.95	0.47
1:A:636:LYS:O	1:A:684:THR:HB	2.15	0.47
1:B:545:ALA:O	1:B:567:GLN:HA	2.14	0.47
1:B:630:ARG:HA	4:B:2432:HOH:O	2.15	0.47
1:A:110:ILE:HD11	1:A:172:ASN:OD1	2.14	0.47
1:A:298:ARG:HA	1:B:722:ALA:O	2.15	0.47
1:A:132:ASP:HB3	4:A:1821:HOH:O	2.15	0.47
1:A:660:HIS:HB2	4:A:1245:HOH:O	2.15	0.47
1:A:595:ASN:ND2	1:A:599:ASN:H	2.14	0.46
1:A:227:VAL:HG12	1:A:244:LYS:CG	2.40	0.46
1:A:38:TYR:N	1:A:51:ASN:HD21	2.09	0.46
1:A:592:ASN:HD21	1:A:676:ASN:ND2	2.09	0.46
1:A:276:VAL:O	1:A:277:LYS:HB2	2.15	0.46
1:B:106:GLN:O	1:B:110:ILE:HG13	2.15	0.46
1:B:129:LEU:HA	1:B:130:PRO:HD2	1.74	0.46
1:A:532:LEU:HD13	1:A:708:LEU:HD11	1.97	0.46
1:B:422:GLU:HG2	4:B:2670:HOH:O	2.15	0.46
1:B:516:ASP:HB3	1:B:519:ILE:HB	1.97	0.46
1:B:262:GLU:O	1:B:263:ASN:HB2	2.15	0.46
1:B:382:LEU:CD1	1:B:655:PRO:HB2	2.45	0.46
1:A:546:MET:HE3	1:A:565:VAL:HG11	1.98	0.46
1:B:626:TRP:O	1:B:629:HIS:N	2.49	0.46
1:A:608:TYR:HE2	1:B:608:TYR:CE2	2.32	0.46
1:B:437:GLU:HA	1:B:452:ARG:HB2	1.97	0.46
1:A:408:LEU:CD1	1:A:425:ARG:HD2	2.46	0.46
1:B:547:ASP:O	1:B:549:VAL:HG13	2.16	0.46
1:B:640:VAL:O	1:B:674:LEU:HD11	2.15	0.46
1:B:482:ILE:HB	1:B:706:THR:OG1	2.16	0.46
1:B:231:ASP:HB2	1:B:626:TRP:CZ2	2.50	0.46
1:B:403:PRO:HG3	1:B:430:PHE:CD2	2.51	0.45
1:A:210:LYS:HA	1:A:210:LYS:HZ1	1.82	0.45
1:A:92:ARG:HA	1:A:93:PRO:HD2	1.83	0.45
1:A:200:ASN:ND2	4:A:1700:HOH:O	2.48	0.45
1:B:10:MET:HG2	1:B:14:LEU:CD1	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:206:ALA:O	1:B:209:VAL:HG22	2.15	0.45
1:B:233:LYS:HZ3	1:B:233:LYS:CB	2.29	0.45
1:B:636:LYS:HG3	1:B:639:TRP:CZ2	2.52	0.45
1:B:7:MET:HE2	1:B:70:VAL:C	2.36	0.45
1:B:272:GLN:O	1:B:273:LYS:HB2	2.17	0.45
1:B:366:ILE:HD12	1:B:631:LEU:HD13	1.97	0.45
1:B:540:ASN:HB3	1:B:676:ASN:ND2	2.32	0.45
1:B:441:GLN:OE1	1:B:447:ASN:HB2	2.16	0.45
1:A:125:GLU:HA	4:A:1026:HOH:O	2.15	0.45
1:A:178:GLN:NE2	1:A:179:PRO:O	2.43	0.45
1:A:434:ALA:HB3	1:A:452:ARG:HG2	1.99	0.45
1:A:563:MET:HG2	1:B:620:GLN:HB3	1.99	0.45
1:A:529:ASN:HD21	1:A:682:TRP:HE3	1.64	0.44
1:B:641:THR:HB	4:B:2176:HOH:O	2.17	0.44
1:A:348:ASN:ND2	1:A:351:GLY:H	2.15	0.44
1:A:611:GLY:HA2	1:A:703:TRP:O	2.17	0.44
1:B:121:THR:CG2	1:B:156:MET:HB2	2.47	0.44
1:A:339:GLY:HA3	1:A:340:PRO:HD2	1.89	0.44
1:A:613:HIS:CE1	1:A:702:GLU:HG3	2.52	0.44
1:B:95:PRO:CB	1:B:146:VAL:HG21	2.39	0.44
1:A:574:GLN:HG2	1:A:671:ASN:CB	2.47	0.44
1:B:238:GLN:NE2	1:B:238:GLN:HA	2.32	0.44
1:B:381:TYR:N	1:B:381:TYR:HD2	2.14	0.44
1:B:585:ILE:HD13	1:B:711:TRP:CH2	2.52	0.44
1:B:203:GLU:N	1:B:203:GLU:CD	2.60	0.44
1:B:595:ASN:HB2	1:B:715:ASP:OD1	2.17	0.44
1:A:128:LEU:O	1:A:130:PRO:HD3	2.18	0.44
1:A:273:LYS:HD3	1:A:273:LYS:HA	1.81	0.44
1:A:391:THR:HA	1:A:413:ILE:CD1	2.48	0.44
1:B:611:GLY:HA3	4:B:2231:HOH:O	2.18	0.44
1:A:664:LEU:HD21	1:A:682:TRP:CD2	2.53	0.44
1:A:612:THR:HG21	4:A:1179:HOH:O	2.18	0.43
1:B:573:GLU:OE1	1:B:642:ARG:HG3	2.18	0.43
1:B:382:LEU:HD12	1:B:655:PRO:HB2	2.00	0.43
1:A:224:PRO:O	1:A:224:PRO:HG2	2.18	0.43
1:A:553:ASN:HD22	1:A:554:THR:N	2.16	0.43
1:B:66:ASN:HA	1:B:66:ASN:HD22	1.51	0.43
1:A:253:ASP:OD2	1:A:259:HIS:NE2	2.46	0.43
1:A:459:TRP:CZ2	1:A:461:SER:HB2	2.53	0.43
1:B:549:VAL:HG11	1:B:566:ASN:OD1	2.19	0.43
1:B:189:LEU:C	1:B:189:LEU:HD22	2.38	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:106:GLN:NE2	1:A:169:LEU:O	2.34	0.43
1:A:237:LYS:HE2	1:A:239:ASP:HB2	2.01	0.43
1:B:305:PRO:HB2	4:B:2495:HOH:O	2.17	0.43
1:B:257:TRP:CZ2	1:B:465:ASN:HB3	2.54	0.43
1:A:348:ASN:HD21	1:A:351:GLY:CA	2.32	0.43
1:A:515:ILE:HG21	1:A:691:ALA:HB1	2.00	0.43
1:B:334:MET:HB3	4:B:2664:HOH:O	2.19	0.43
1:B:571:GLY:HA3	4:B:2513:HOH:O	2.19	0.43
1:A:209:VAL:CG1	1:A:214:ILE:HB	2.49	0.43
1:A:97:ASN:ND2	1:A:331:HIS:NE2	2.67	0.43
1:A:438:TYR:CD1	1:B:698:ILE:HD13	2.54	0.43
1:A:201:ASN:ND2	1:A:201:ASN:N	2.66	0.42
1:B:574:GLN:H	1:B:671:ASN:ND2	2.17	0.42
1:B:195:VAL:O	1:B:199:ILE:HD13	2.20	0.42
1:B:572:ASN:HB2	1:B:671:ASN:ND2	2.34	0.42
1:B:541:ASN:HB3	1:B:589:SER:O	2.19	0.42
1:A:95:PRO:HB3	1:A:146:VAL:HG11	2.01	0.42
1:B:326:ARG:HH11	1:B:476:GLU:CD	2.23	0.42
1:B:326:ARG:NH1	1:B:476:GLU:CD	2.72	0.42
1:B:611:GLY:HA2	1:B:703:TRP:O	2.19	0.42
1:A:595:ASN:C	1:A:595:ASN:ND2	2.72	0.42
1:B:267:VAL:HB	1:B:277:LYS:HB3	2.01	0.42
1:B:510:ARG:HG3	1:B:510:ARG:HH11	1.84	0.42
1:B:539:GLU:CG	1:B:678:ASP:HB2	2.49	0.42
1:A:111:VAL:O	1:A:117:PHE:HB2	2.19	0.42
1:B:221:ILE:CD1	1:B:250:ASP:HB2	2.49	0.42
1:A:410:ASN:OD1	1:A:424:PRO:HA	2.20	0.42
1:A:492:VAL:HB	1:A:519:ILE:HG23	2.01	0.42
1:A:573:GLU:HG2	1:A:641:THR:HA	2.02	0.42
1:B:696:TRP:CD2	1:B:697:PRO:HA	2.55	0.42
1:A:510:ARG:HH11	1:A:510:ARG:HG3	1.85	0.42
1:B:300:ALA:HA	1:B:301:PRO:HD2	1.93	0.42
1:A:377:TYR:HB2	1:B:559:ARG:HG2	2.02	0.42
1:B:139:PHE:O	1:B:143:ASN:HA	2.20	0.42
1:B:143:ASN:ND2	1:B:143:ASN:O	2.53	0.42
1:B:214:ILE:N	1:B:214:ILE:CD1	2.80	0.42
1:B:398:ARG:CZ	1:B:408:LEU:HD12	2.50	0.42
1:A:381:TYR:HB3	1:A:466:TYT:H9	2.02	0.42
1:A:582:PRO:C	1:B:615:VAL:HG12	2.40	0.41
1:B:219:LYS:HA	1:B:219:LYS:HD2	1.71	0.41
1:B:574:GLN:HG2	1:B:671:ASN:CG	2.41	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:482:ILE:HB	1:A:706:THR:HG1	1.85	0.41
1:A:595:ASN:C	1:A:595:ASN:HD22	2.23	0.41
1:A:595:ASN:HD21	1:A:599:ASN:H	1.66	0.41
1:A:118:LYS:HE2	1:A:119:PRO:HD2	2.03	0.41
1:B:181:LYS:HB3	1:B:181:LYS:HE2	1.79	0.41
1:B:32:LEU:HB2	1:B:39:VAL:HB	2.02	0.41
1:B:617:LYS:HA	4:B:2226:HOH:O	2.19	0.41
1:A:633:PHE:CB	1:A:664:LEU:HD12	2.51	0.41
1:B:308:ILE:O	1:B:405:ASN:HB3	2.20	0.41
1:B:466:TYT:H10	1:B:466:TYT:H12	1.92	0.41
1:B:595:ASN:C	1:B:595:ASN:ND2	2.74	0.41
1:A:22:GLN:NE2	4:A:1501:HOH:O	2.38	0.41
1:B:130:PRO:HA	1:B:131:PRO:HD3	1.92	0.41
1:B:644:HIS:HA	1:B:645:PRO:HD2	1.93	0.41
1:B:442:GLU:HB3	1:B:445:GLN:HB2	2.02	0.41
1:B:595:ASN:ND2	1:B:599:ASN:H	2.18	0.41
1:A:545:ALA:O	1:A:567:GLN:HA	2.20	0.41
1:B:203:GLU:OE1	1:B:204:GLU:HG3	2.21	0.41
1:A:643:TYR:O	1:A:644:HIS:CD2	2.73	0.41
1:A:669:LYS:HE3	4:A:1769:HOH:O	2.21	0.41
1:A:32:LEU:HB2	1:A:39:VAL:HB	2.03	0.41
1:B:337:ARG:HH12	1:B:653:LYS:HA	1.85	0.41
1:B:573:GLU:HG2	1:B:641:THR:HA	2.03	0.41
1:A:368:PRO:HB2	1:A:621:PHE:CZ	2.55	0.41
1:A:477:ASN:HD22	1:A:479:THR:H	1.69	0.41
1:B:138:ALA:O	1:B:142:GLU:HB2	2.21	0.41
1:B:547:ASP:HA	1:B:548:PRO:HD3	1.93	0.41
1:A:322:MET:HG2	4:A:1611:HOH:O	2.20	0.40
1:B:6:HIS:O	1:B:71:SER:HA	2.20	0.40
1:B:168:ASP:C	1:B:168:ASP:OD2	2.60	0.40
1:B:631:LEU:HD22	1:B:651:GLU:HB2	2.02	0.40
1:B:65:ASP:O	1:B:66:ASN:HB2	2.20	0.40
1:B:692:ARG:NH2	1:B:694:GLU:HB2	2.36	0.40
1:A:194:SER:O	1:A:198:ILE:HG13	2.22	0.40
1:A:342:ILE:N	1:A:342:ILE:CD1	2.84	0.40
1:B:129:LEU:C	1:B:129:LEU:HD23	2.42	0.40
1:B:224:PRO:HD2	1:B:466:TYT:H14	2.00	0.40
1:B:717:THR:HA	1:B:718:PRO:HD3	1.93	0.40
1:A:7:MET:HE1	1:A:59:VAL:CG1	2.52	0.40
1:A:617:LYS:HA	1:A:617:LYS:HD3	1.82	0.40
1:A:94:HIS:HD2	1:A:322:MET:CE	2.33	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:94:HIS:CD2	1:B:96:LEU:HB2	2.56	0.40
1:A:326:ARG:HD3	1:A:476:GLU:CD	2.41	0.40
1:A:624:ASP:O	1:A:629:HIS:CE1	2.74	0.40

There are no symmetry-related clashes.

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	713/727 (98%)	674 (94%)	37 (5%)	2 (0%)	44 60
1	B	715/727 (98%)	676 (94%)	37 (5%)	2 (0%)	44 60
All	All	1428/1454 (98%)	1350 (94%)	74 (5%)	4 (0%)	44 60

All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	212	ARG
1	B	536	VAL
1	A	536	VAL
1	B	388	GLY

5.3.2 Protein sidechains [i](#)

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	609/615 (99%)	593 (97%)	16 (3%)	51	72
1	B	611/615 (99%)	586 (96%)	25 (4%)	35	54
All	All	1220/1230 (99%)	1179 (97%)	41 (3%)	42	63

All (41) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	7	MET
1	A	132	ASP
1	A	156	MET
1	A	210	LYS
1	A	224	PRO
1	A	239	ASP
1	A	348	ASN
1	A	372	PRO
1	A	477	ASN
1	A	506	LYS
1	A	595	ASN
1	A	613	HIS
1	A	638	LEU
1	A	669	LYS
1	A	671	ASN
1	A	676	ASN
1	B	7	MET
1	B	11	ASP
1	B	15	LYS
1	B	66	ASN
1	B	80	GLN
1	B	137	TRP
1	B	143	ASN
1	B	144	LYS
1	B	156	MET
1	B	189	LEU
1	B	203	GLU
1	B	210	LYS
1	B	239	ASP
1	B	334	MET
1	B	368	PRO
1	B	422	GLU
1	B	477	ASN
1	B	572	ASN
1	B	595	ASN

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Mol	Chain	Res	Type
1	B	613	HIS
1	B	636	LYS
1	B	648	ARG
1	B	669	LYS
1	B	671	ASN
1	B	676	ASN

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (60) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	51	ASN
1	A	80	GLN
1	A	97	ASN
1	A	120	ASN
1	A	170	GLN
1	A	196	GLN
1	A	197	ASN
1	A	200	ASN
1	A	201	ASN
1	A	263	ASN
1	A	272	GLN
1	A	315	ASN
1	A	327	ASN
1	A	348	ASN
1	A	447	ASN
1	A	477	ASN
1	A	517	HIS
1	A	525	GLN
1	A	529	ASN
1	A	541	ASN
1	A	553	ASN
1	A	566	ASN
1	A	567	GLN
1	A	595	ASN
1	A	599	ASN
1	A	604	GLN
1	A	620	GLN
1	A	671	ASN
1	A	676	ASN
1	B	51	ASN
1	B	66	ASN
1	B	76	ASN

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Mol	Chain	Res	Type
1	B	80	GLN
1	B	94	HIS
1	B	178	GLN
1	B	196	GLN
1	B	197	ASN
1	B	200	ASN
1	B	201	ASN
1	B	238	GLN
1	B	263	ASN
1	B	272	GLN
1	B	315	ASN
1	B	327	ASN
1	B	350	ASN
1	B	477	ASN
1	B	501	HIS
1	B	525	GLN
1	B	529	ASN
1	B	541	ASN
1	B	553	ASN
1	B	567	GLN
1	B	574	GLN
1	B	592	ASN
1	B	595	ASN
1	B	599	ASN
1	B	637	GLN
1	B	644	HIS
1	B	671	ASN
1	B	676	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

2 non-standard protein/DNA/RNA residues 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$
1	TYT	A	466	1	22,25,26	2.79	8 (36%)	21,35,37	2.17	6 (28%)
1	TYT	B	466	1	22,25,26	2.81	9 (40%)	21,35,37	2.06	6 (28%)

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
1	TYT	A	466	1	-	0/10/35/37	0/2/3/3
1	TYT	B	466	1	-	0/10/35/37	0/2/3/3

All (17) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	466	TYT	C4-C5	-7.60	1.42	1.51
1	A	466	TYT	C4-C5	-6.78	1.43	1.51
1	A	466	TYT	C18-C8	-5.73	1.42	1.50
1	B	466	TYT	C18-C8	-5.49	1.42	1.50
1	A	466	TYT	C18-C4	-4.79	1.41	1.53
1	B	466	TYT	C18-C4	-4.52	1.41	1.53
1	A	466	TYT	C9-N2	-2.76	1.40	1.47
1	B	466	TYT	C9-N2	-2.68	1.41	1.47
1	A	466	TYT	C14-C13	2.15	1.43	1.38
1	B	466	TYT	C1-C2	2.18	1.53	1.50
1	B	466	TYT	C14-C13	2.18	1.43	1.38
1	A	466	TYT	C17-C12	2.65	1.43	1.39
1	B	466	TYT	C17-C12	2.94	1.43	1.39
1	B	466	TYT	C15-C14	3.05	1.45	1.38
1	A	466	TYT	C15-C14	3.19	1.45	1.38
1	B	466	TYT	C6-C7	4.41	1.42	1.35
1	A	466	TYT	C6-C7	4.68	1.43	1.35

All (12) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	466	TYT	C10-C11-C12	-4.07	114.84	122.31
1	B	466	TYT	C10-C11-C12	-3.84	115.27	122.31
1	B	466	TYT	O3-C5-C6	-2.16	117.81	121.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	466	TYT	O3-C5-C6	-2.05	118.00	121.53
1	A	466	TYT	C15-C16-C17	2.08	123.07	120.21
1	B	466	TYT	C15-C16-C17	2.19	123.22	120.21
1	B	466	TYT	C4-C5-C6	2.69	121.51	116.79
1	B	466	TYT	C10-C9-C11	2.70	62.74	59.53
1	A	466	TYT	C4-C5-C6	2.78	121.68	116.79
1	A	466	TYT	C10-C9-C11	3.25	63.39	59.53
1	B	466	TYT	C10-C9-N2	5.35	127.22	117.31
1	A	466	TYT	C10-C9-N2	5.79	128.02	117.31

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

2 monomers are involved in 7 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	A	466	TYT	2	0
1	B	466	TYT	5	0

5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 6 ligands modelled in this entry, 6 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

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	717/727 (98%)	-0.56	8 (1%) 80 79	11, 25, 45, 63	0
1	B	719/727 (98%)	-0.40	22 (3%) 49 47	13, 28, 52, 75	0
All	All	1436/1454 (98%)	-0.48	30 (2%) 64 61	11, 26, 50, 75	0

All (30) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	65	ASP	6.4
1	B	301	PRO	4.2
1	B	6	HIS	4.1
1	A	67	LYS	3.8
1	B	115	ALA	3.8
1	B	215	THR	3.4
1	B	64	LYS	3.3
1	B	302	ALA	3.1
1	B	143	ASN	3.1
1	B	629	HIS	3.0
1	A	148	GLN	2.9
1	A	64	LYS	2.9
1	B	670	ASP	2.7
1	B	644	HIS	2.7
1	A	203	GLU	2.7
1	B	503	GLU	2.7
1	B	181	LYS	2.7
1	B	92	ARG	2.5
1	A	218	LYS	2.5
1	B	628	TYR	2.4
1	B	91	LYS	2.4
1	B	114	SER	2.3
1	B	116	ASP	2.3
1	B	725	LYS	2.1

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Mol	Chain	Res	Type	RSRZ
1	A	239	ASP	2.1
1	A	65	ASP	2.1
1	B	15	LYS	2.1
1	B	178	GLN	2.0
1	B	182	ASP	2.0
1	A	503	GLU	2.0

6.2 Non-standard residues in protein, DNA, RNA chains [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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. 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	LLDF	B-factors(Å ²)	Q < 0.9
1	TYT	A	466	23/24	0.87	0.19	-	23,46,66,68	0
1	TYT	B	466	23/24	0.89	0.18	-	21,43,59,59	0

6.3 Carbohydrates [i](#)

There are no carbohydrates 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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. 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	LLDF	B-factors(Å ²)	Q < 0.9
3	CA	A	803	1/1	0.93	0.15	0.27	53,53,53,53	0
3	CA	A	802	1/1	0.97	0.09	-1.00	22,22,22,22	0
3	CA	B	803	1/1	0.91	0.08	-1.40	58,58,58,58	0
3	CA	B	802	1/1	0.99	0.05	-1.85	24,24,24,24	0
2	CU	A	801	1/1	0.99	0.03	-	26,26,26,26	0
2	CU	B	801	1/1	1.00	0.04	-	24,24,24,24	0

6.5 Other polymers

There are no such residues in this entry.