



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 8, 2026 – 12:41 PM UTC

PDB ID : 3WRG / pdb_00003wrg
Title : The complex structure of HypBA1 with L-arabinose
Authors : Huang, C.H.; Zhu, Z.; Cheng, Y.S.; Chan, H.C.; Ko, T.P.; Chen, C.C.; Wang, I.; Ho, M.R.; Hsu, S.T.; Zeng, Y.F.; Huang, Y.N.; Liu, J.R.; Guo, R.T.
Deposited on : 2014-02-25
Resolution : 2.23 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

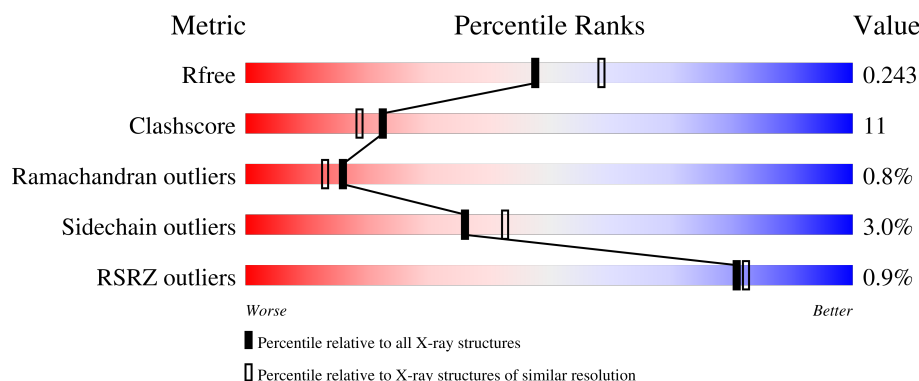
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.23 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	3416 (2.26-2.22)
Clashscore	190562	3556 (2.26-2.22)
Ramachandran outliers	187476	3500 (2.26-2.22)
Sidechain outliers	187428	3501 (2.26-2.22)
RSRZ outliers	180081	3415 (2.26-2.22)

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	658	77% 21% .

2 Entry composition [i](#)

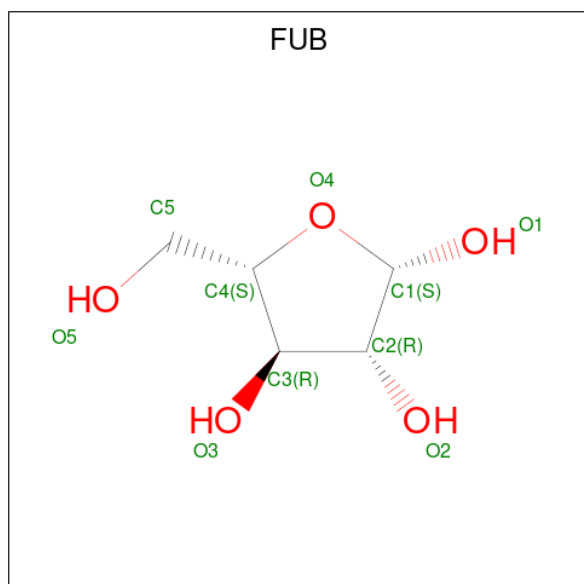
There are 4 unique types of molecules in this entry. The entry contains 5471 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 Non-reducing end beta-L-arabinofuranosidase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	658	5152	3243	884	1002	23	0	0	0

- Molecule 2 is beta-L-arabinofuranose (CCD ID: FUB) (formula: C₅H₁₀O₅).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	C	O		
2	A	1	10	5	5	0	0

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

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

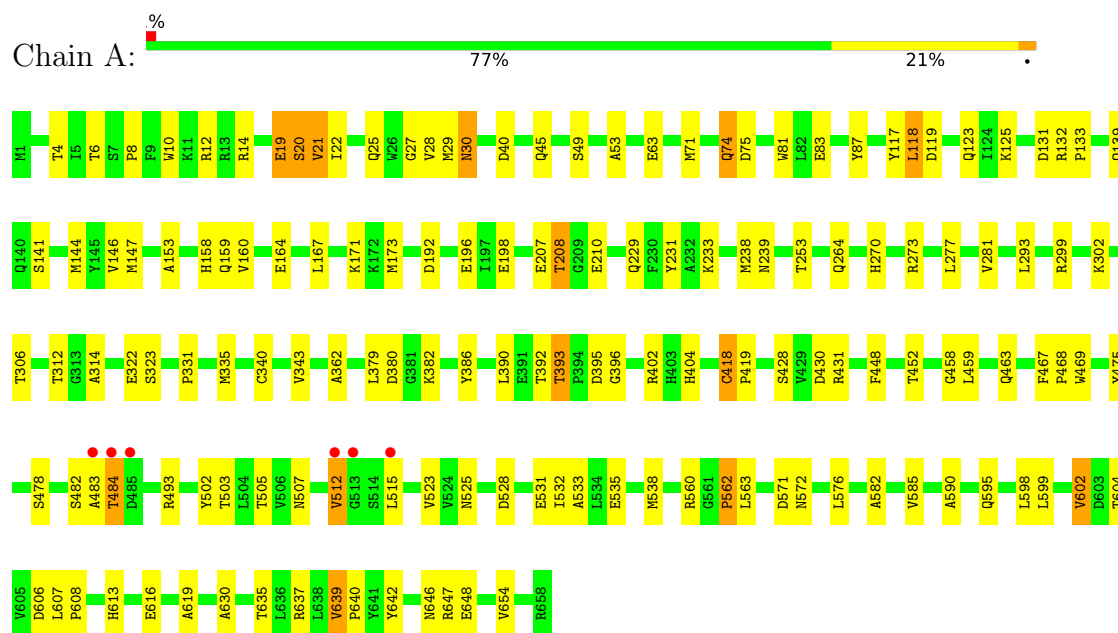
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	308	Total 308	O 308	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: Non-reducing end beta-L-arabinofuranosidase



4 Data and refinement statistics

Property	Value	Source
Space group	P 32 2 1	Depositor
Cell constants a, b, c, α , β , γ	77.59Å 77.59Å 254.18Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	25.00 – 2.23 25.00 – 2.24	Depositor EDS
% Data completeness (in resolution range)	91.4 (25.00-2.23) 92.2 (25.00-2.24)	Depositor EDS
R_{merge}	0.05	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	5.08 (at 2.24Å)	Xtriage
Refinement program	CNS 1.2	Depositor
R, R_{free}	0.204 , 0.244 0.201 , 0.243	Depositor DCC
R_{free} test set	2027 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	47.7	Xtriage
Anisotropy	0.457	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 35.1	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	0.025 for -h,-k,l	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	5471	wwPDB-VP
Average B, all atoms (Å ²)	52.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.03% 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: ZN, FUB

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	0.49	0/5274	0.97	19/7173 (0.3%)

There are no bond length outliers.

All (19) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	30	ASN	N-CA-C	-11.61	91.86	110.32
1	A	386	TYR	N-CA-C	-10.07	99.29	112.68
1	A	323	SER	N-CA-C	9.60	122.81	109.18
1	A	21	VAL	N-CA-C	7.28	117.80	110.23
1	A	160	VAL	N-CA-C	7.04	118.67	111.00
1	A	343	VAL	N-CA-C	-5.99	104.67	110.72
1	A	132	ARG	CA-C-N	5.84	125.75	119.85
1	A	132	ARG	C-N-CA	5.84	125.75	119.85
1	A	418	CYS	N-CA-C	5.83	120.16	112.35
1	A	208	THR	N-CA-C	5.82	121.04	113.88
1	A	563	LEU	N-CA-C	5.80	119.09	109.46
1	A	238	MET	N-CA-C	-5.74	105.86	112.92
1	A	19	GLU	N-CA-C	5.58	117.44	111.36
1	A	49	SER	N-CA-C	5.49	119.84	113.20
1	A	141	SER	N-CA-C	5.31	118.86	112.38
1	A	619	ALA	N-CA-C	-5.12	104.24	110.13
1	A	22	ILE	CB-CA-C	-5.10	108.85	113.70
1	A	20	SER	N-CA-C	5.06	118.91	112.12
1	A	458	GLY	N-CA-C	-5.02	107.62	114.64

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	5152	0	4914	106	0
2	A	10	0	0	0	0
3	A	1	0	0	0	0
4	A	308	0	0	5	0
All	All	5471	0	4914	106	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 11.

All (106) 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:144:MET:HE2	1:A:192:ASP:H	0.97	1.12
1:A:144:MET:HE2	1:A:192:ASP:N	1.79	0.98
1:A:147:MET:HE2	1:A:173:MET:HG2	1.50	0.93
1:A:144:MET:CE	1:A:192:ASP:H	1.85	0.89
1:A:118:LEU:H	1:A:147:MET:HE3	1.38	0.87
1:A:572:ASN:HD21	1:A:637:ARG:H	1.23	0.86
1:A:159:GLN:HE22	1:A:431:ARG:HH12	1.25	0.84
1:A:118:LEU:N	1:A:147:MET:HE3	1.96	0.80
1:A:362:ALA:HB3	1:A:493:ARG:HD3	1.68	0.76
1:A:571:ASP:CG	1:A:647:ARG:HH22	1.94	0.74
1:A:599:LEU:HD21	1:A:647:ARG:HD2	1.69	0.73
1:A:208:THR:HG22	1:A:210:GLU:H	1.53	0.73
1:A:469:TRP:CH2	1:A:602:VAL:HG22	2.24	0.72
1:A:4:THR:HB	1:A:452:THR:HG22	1.72	0.71
1:A:158:HIS:HE1	1:A:164:GLU:OE2	1.74	0.70
1:A:393:THR:HB	1:A:402:ARG:NH2	2.06	0.70
1:A:515:LEU:HD12	1:A:515:LEU:N	2.07	0.69
1:A:270:HIS:HE1	1:A:322:GLU:OE2	1.77	0.68
1:A:27:GLY:O	1:A:30:ASN:O	2.12	0.68
1:A:117:TYR:HA	1:A:147:MET:HE1	1.75	0.67
1:A:392:THR:HG22	4:A:1105:HOH:O	1.95	0.67
1:A:393:THR:HB	1:A:402:ARG:HH22	1.60	0.67
1:A:393:THR:HG22	1:A:396:GLY:N	2.09	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:393:THR:HG22	1:A:396:GLY:H	1.61	0.66
1:A:312:THR:HG21	4:A:862:HOH:O	1.97	0.64
1:A:139:GLN:HB2	1:A:231:TYR:CD1	2.33	0.63
1:A:147:MET:HE2	1:A:173:MET:CG	2.25	0.63
1:A:448:PHE:HA	1:A:463:GLN:HE22	1.64	0.63
1:A:393:THR:CG2	1:A:395:ASP:OD1	2.47	0.63
1:A:503:THR:HB	1:A:535:GLU:HB2	1.80	0.62
1:A:118:LEU:H	1:A:147:MET:CE	2.11	0.61
1:A:362:ALA:CB	1:A:493:ARG:HD3	2.30	0.61
1:A:595:GLN:HB2	1:A:598:LEU:HB3	1.82	0.61
1:A:29:MET:HG2	1:A:53:ALA:HB3	1.82	0.61
1:A:571:ASP:OD1	1:A:647:ARG:NH2	2.34	0.61
1:A:393:THR:HG23	1:A:395:ASP:OD1	2.01	0.60
1:A:515:LEU:HD12	1:A:515:LEU:H	1.66	0.60
1:A:302:LYS:O	1:A:306:THR:HB	2.02	0.59
1:A:10:TRP:O	1:A:14:ARG:HG3	2.02	0.59
1:A:277:LEU:O	1:A:281:VAL:HG23	2.02	0.58
1:A:158:HIS:HD2	1:A:207:GLU:OE2	1.87	0.57
1:A:159:GLN:HE22	1:A:431:ARG:NH1	2.00	0.57
1:A:613:HIS:HD2	1:A:630:ALA:HB1	1.70	0.56
1:A:538:MET:HB3	1:A:560:ARG:NH1	2.21	0.56
1:A:502:TYR:OH	1:A:515:LEU:HD11	2.07	0.53
1:A:144:MET:HG3	1:A:192:ASP:HB2	1.91	0.53
1:A:87:TYR:CD2	1:A:428:SER:HB3	2.44	0.53
1:A:264:GLN:O	1:A:299:ARG:NH1	2.42	0.53
1:A:14:ARG:NH2	1:A:430:ASP:OD1	2.42	0.52
1:A:159:GLN:NE2	1:A:431:ARG:HH12	1.99	0.52
1:A:118:LEU:HD23	1:A:119:ASP:N	2.24	0.51
1:A:525:ASN:O	1:A:528:ASP:HB2	2.11	0.51
1:A:208:THR:HG22	1:A:210:GLU:N	2.25	0.51
1:A:475:TYR:HB2	1:A:532:ILE:HB	1.93	0.51
1:A:642:TYR:C	1:A:642:TYR:CD1	2.90	0.50
1:A:582:ALA:HB3	1:A:585:VAL:CG1	2.41	0.50
1:A:390:LEU:HG	1:A:654:VAL:HG21	1.93	0.49
1:A:572:ASN:HD21	1:A:637:ARG:N	2.03	0.49
1:A:582:ALA:HB3	1:A:585:VAL:HG11	1.95	0.49
1:A:469:TRP:HH2	1:A:602:VAL:HG22	1.76	0.49
1:A:229:GLN:O	1:A:233:LYS:HG3	2.12	0.49
1:A:20:SER:HB3	1:A:382:LYS:HE3	1.94	0.49
1:A:392:THR:HG22	1:A:393:THR:N	2.27	0.49
1:A:507:ASN:ND2	1:A:531:GLU:H	2.09	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:606:ASP:HB3	1:A:635:THR:CG2	2.43	0.49
1:A:331:PRO:O	1:A:335:MET:HB3	2.12	0.48
1:A:418:CYS:HB2	1:A:419:PRO:HD3	1.95	0.48
1:A:312:THR:HG23	1:A:314:ALA:H	1.78	0.48
1:A:639:VAL:HG13	1:A:640:PRO:HD2	1.94	0.48
1:A:512:VAL:HG22	1:A:512:VAL:O	2.14	0.47
1:A:538:MET:O	1:A:560:ARG:NH1	2.46	0.47
1:A:379:LEU:H	1:A:646:ASN:HD21	1.60	0.47
1:A:595:GLN:HG3	1:A:604:THR:HG23	1.97	0.47
1:A:75:ASP:HB2	1:A:146:VAL:HG21	1.96	0.46
1:A:239:ASN:O	1:A:239:ASN:OD1	2.34	0.46
1:A:167:LEU:O	1:A:171:LYS:HG3	2.15	0.46
1:A:118:LEU:CD2	1:A:118:LEU:C	2.89	0.45
1:A:198:GLU:HB2	4:A:810:HOH:O	2.16	0.45
1:A:452:THR:HG23	4:A:1036:HOH:O	2.16	0.45
1:A:590:ALA:HB2	1:A:607:LEU:HD21	1.99	0.45
1:A:380:ASP:C	1:A:380:ASP:OD1	2.60	0.45
1:A:29:MET:HE1	1:A:81:TRP:CB	2.47	0.45
1:A:379:LEU:H	1:A:646:ASN:ND2	2.15	0.44
1:A:335:MET:O	1:A:404:HIS:HE1	2.00	0.44
1:A:507:ASN:HD21	1:A:531:GLU:H	1.66	0.44
1:A:118:LEU:HD23	1:A:118:LEU:C	2.43	0.43
1:A:505:THR:OG1	1:A:533:ALA:HB3	2.18	0.43
1:A:616:GLU:HA	1:A:616:GLU:OE1	2.18	0.43
1:A:40:ASP:CG	1:A:45:GLN:HB2	2.43	0.43
1:A:448:PHE:CA	1:A:463:GLN:HE22	2.28	0.43
1:A:21:VAL:O	1:A:25:GLN:HG3	2.17	0.43
1:A:270:HIS:HD2	1:A:273:ARG:H	1.66	0.43
1:A:538:MET:HB3	1:A:560:ARG:HH12	1.84	0.43
1:A:118:LEU:N	1:A:147:MET:CE	2.71	0.42
1:A:467:PHE:CE2	1:A:562:PRO:HG3	2.55	0.42
1:A:8:PRO:O	1:A:12:ARG:HG3	2.20	0.42
1:A:75:ASP:HB2	1:A:146:VAL:CG2	2.50	0.41
1:A:648:GLU:HB2	4:A:900:HOH:O	2.20	0.41
1:A:131:ASP:O	1:A:133:PRO:HD3	2.20	0.41
1:A:459:LEU:HD12	1:A:478:SER:O	2.21	0.41
1:A:71:MET:H	1:A:74:GLN:NE2	2.19	0.40
1:A:404:HIS:H	1:A:404:HIS:CD2	2.39	0.40
1:A:607:LEU:HA	1:A:608:PRO:HD3	1.95	0.40
1:A:123:GLN:O	1:A:125:LYS:HG3	2.21	0.40
1:A:83:GLU:HB2	1:A:153:ALA:HA	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:340:CYS:SG	1:A:418:CYS:HA	2.61	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	656/658 (100%)	628 (96%)	23 (4%)	5 (1%)	16 13

All (5) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	196	GLU
1	A	483	ALA
1	A	484	THR
1	A	482	SER
1	A	512	VAL

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	538/538 (100%)	522 (97%)	16 (3%)	36 43

All (16) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	6	THR
1	A	19	GLU
1	A	28	VAL
1	A	63	GLU
1	A	74	GLN
1	A	118	LEU
1	A	253	THR
1	A	293	LEU
1	A	393	THR
1	A	468	PRO
1	A	484	THR
1	A	523	VAL
1	A	562	PRO
1	A	576	LEU
1	A	602	VAL
1	A	639	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (22) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	30	ASN
1	A	56	ASN
1	A	74	GLN
1	A	92	HIS
1	A	139	GLN
1	A	140	GLN
1	A	158	HIS
1	A	159	GLN
1	A	218	GLN
1	A	239	ASN
1	A	242	ASN
1	A	264	GLN
1	A	270	HIS
1	A	291	GLN
1	A	388	ASN
1	A	404	HIS
1	A	447	GLN
1	A	463	GLN
1	A	507	ASN
1	A	572	ASN
1	A	613	HIS
1	A	646	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 ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

Of 2 ligands modelled in this entry, 1 is monoatomic - leaving 1 for Mogul analysis.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
2	FUB	A	701	-	10,10,10	0.66	0	13,14,14	1.36	1 (7%)

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	FUB	A	701	-	-	0/2/18/18	0/1/1/1

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	701	FUB	C1-C2-C3	-3.77	97.66	102.29

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

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 [i](#)

6.1 Protein, DNA and RNA chains [i](#)

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	658/658 (100%)	-0.15	6 (0%) 81 82	36, 51, 69, 87	0

All (6) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	483	ALA	3.2
1	A	484	THR	2.6
1	A	513	GLY	2.4
1	A	512	VAL	2.3
1	A	485	ASP	2.2
1	A	515	LEU	2.1

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
2	FUB	A	701	10/10	0.96	0.06	42,42,44,44	0
3	ZN	A	702	1/1	1.00	0.01	44,44,44,44	0

6.5 Other polymers [i](#)

There are no such residues in this entry.