



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 04:15 PM UTC

PDB ID : 9CD2 / pdb_00009cd2
Title : Structure of E. coli ZDHYS365 multi-ubiquitin domain protein
Authors : Ye, Q.; Gong, M.; Corbett, K.D.
Deposited on : 2024-06-23
Resolution : 1.87 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

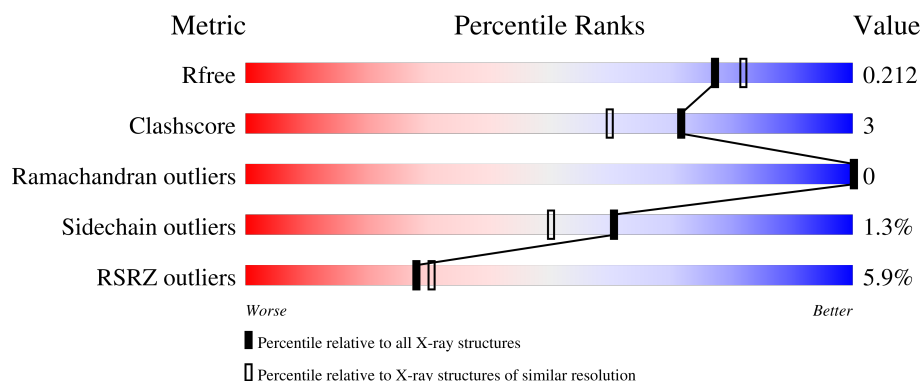
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.87 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	1220 (1.88-1.88)
Clashscore	190562	1234 (1.88-1.88)
Ramachandran outliers	187476	1222 (1.88-1.88)
Sidechain outliers	187428	1222 (1.88-1.88)
RSRZ outliers	180081	1220 (1.88-1.88)

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	222	<div> <div>7%</div> <div> <div></div> <div>90%</div> <div>7%</div> <div></div> </div> </div>
2	B	222	<div> <div>4%</div> <div> <div></div> <div>88%</div> <div>10%</div> <div></div> </div> </div>

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 7602 atoms, of which 3511 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 ZDHYS365 multi-ubiquitin domain protein.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	217	Total	C	H	N	O	S	0	0	0
			3482	1117	1728	285	345	7			

There are 3 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-1	SER	-	expression tag	UNP A0AAE5BEA3
A	0	ASN	-	expression tag	UNP A0AAE5BEA3
A	1	ALA	-	expression tag	UNP A0AAE5BEA3

- Molecule 2 is a protein called ZDHYS365 multi-ubiquitin domain protein.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
2	B	219	Total	C	H	N	O	S	0	0	0
			3519	1128	1747	288	349	7			

There are 3 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	-1	SER	-	expression tag	UNP A0AAE5BEA3
B	0	ASN	-	expression tag	UNP A0AAE5BEA3
B	1	ALA	-	expression tag	UNP A0AAE5BEA3

- Molecule 3 is TETRAETHYLENE GLYCOL (CCD ID: PG4) (formula: C₈H₁₈O₅).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	1	Total	C	H	O	0	0
			31	8	18	5		
3	B	1	Total	C	H	O	0	0
			31	8	18	5		

- Molecule 4 is CALCIUM ION (CCD ID: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	1	Total	Ca	0	0
			1	1		
4	B	1	Total	Ca	0	0
			1	1		

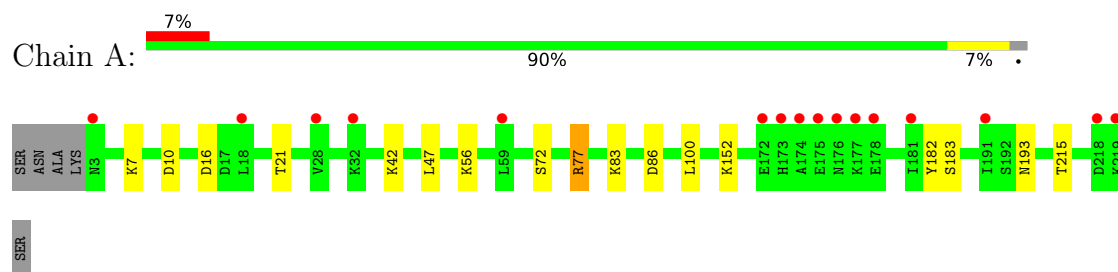
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	279	Total	O	0	0
			279	279		
5	B	258	Total	O	0	0
			258	258		

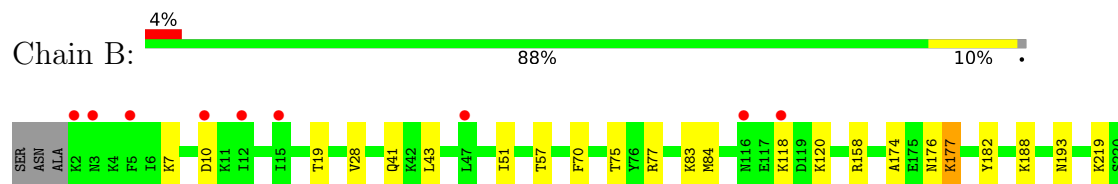
3 Residue-property plots [i](#)

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: ZDHYS365 multi-ubiquitin domain protein



- Molecule 2: ZDHYS365 multi-ubiquitin domain protein



4 Data and refinement statistics

Property	Value	Source
Space group	P 32 2 1	Depositor
Cell constants a, b, c, α , β , γ	117.54Å 117.54Å 104.44Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	46.46 – 1.87 46.46 – 1.87	Depositor EDS
% Data completeness (in resolution range)	100.0 (46.46-1.87) 100.0 (46.46-1.87)	Depositor EDS
R_{merge}	0.09	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.24 (at 1.87Å)	Xtriage
Refinement program	PHENIX 1.21.1_5286	Depositor
R, R_{free}	0.182 , 0.213 0.181 , 0.212	Depositor DCC
R_{free} test set	3502 reflections (5.07%)	wwPDB-VP
Wilson B-factor (Å ²)	31.2	Xtriage
Anisotropy	0.377	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 40.9	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	0.97	EDS
Total number of atoms	7602	wwPDB-VP
Average B, all atoms (Å ²)	46.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.96% 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: PG4, CA, MLY

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	0.79	0/1742	0.78	0/2366
2	B	0.76	0/1749	0.81	0/2374
All	All	0.78	0/3491	0.79	0/4740

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
2	B	0	2

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	B	177	MLY	Mainchain
2	B	188	LYS	Mainchain

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	1754	1728	1729	11	1
2	B	1772	1747	1749	13	1
3	A	13	18	18	0	0
3	B	13	18	18	1	0
4	A	1	0	0	0	0
4	B	1	0	0	0	0
5	A	279	0	0	4	0
5	B	258	0	0	5	0
All	All	4091	3511	3514	23	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 3.

All (23) 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)
5:A:474:HOH:O	2:B:75:THR:HG23	1.94	0.68
1:A:56:LYS:NZ	5:A:402:HOH:O	2.23	0.63
2:B:84:MET:HB3	5:B:597:HOH:O	2.00	0.61
1:A:72:SER:O	2:B:77:ARG:NH2	2.39	0.54
1:A:47:LEU:HD21	1:A:83:LYS:HD3	1.90	0.53
1:A:21:THR:HG22	1:A:56:LYS:HG2	1.95	0.49
1:A:77:ARG:HG3	1:A:86:ASP:OD1	2.12	0.49
1:A:42:MLY:HH23	1:A:100:LEU:HD23	1.95	0.48
2:B:77:ARG:NH1	5:B:403:HOH:O	2.37	0.48
2:B:70:PHE:CD1	3:B:301:PG4:H41	2.48	0.48
2:B:19:THR:HA	2:B:57:THR:O	2.13	0.48
1:A:182:TYR:HA	1:A:215:THR:O	2.15	0.46
2:B:41:GLN:HB2	2:B:51:ILE:HD11	1.99	0.45
2:B:158:ARG:NH1	5:B:413:HOH:O	2.50	0.45
1:A:42:MLY:HH22	5:A:638:HOH:O	2.17	0.44
2:B:84:MET:HG2	5:B:543:HOH:O	2.18	0.43
1:A:183:SER:OG	1:A:215:THR:OG1	2.29	0.42
2:B:28:VAL:HG13	5:B:513:HOH:O	2.19	0.42
2:B:83:MLY:HH23	2:B:83:MLY:HD2	1.79	0.42
1:A:83:LYS:HD2	5:A:565:HOH:O	2.20	0.42
1:A:7:LYS:HG2	1:A:10:ASP:HA	2.00	0.42
2:B:7:LYS:CE	2:B:10:ASP:HA	2.50	0.41
2:B:174:ALA:HB1	2:B:182:TYR:CE1	2.56	0.41

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:16:ASP:OD2	2:B:118:LYS:HZ2[3_665]	1.53	0.07

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	211/222 (95%)	208 (99%)	3 (1%)	0	100	100
2	B	212/222 (96%)	210 (99%)	2 (1%)	0	100	100
All	All	423/444 (95%)	418 (99%)	5 (1%)	0	100	100

There are no Ramachandran outliers to report.

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	192/197 (98%)	190 (99%)	2 (1%)	68	60
2	B	193/196 (98%)	190 (98%)	3 (2%)	55	43
All	All	385/393 (98%)	380 (99%)	5 (1%)	61	50

All (5) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	77	ARG
1	A	193	ASN
2	B	43	LEU

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Mol	Chain	Res	Type
2	B	176	ASN
2	B	193	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (4) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	125	HIS
1	A	134	ASN
1	A	168	HIS
2	B	216	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

9 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	MLY	A	118	1	9,10,11	0.89	0	6,11,13	0.80	0
1	MLY	A	11	1	9,10,11	1.13	0	6,11,13	0.70	0
2	MLY	B	177	2	9,10,11	0.98	1 (11%)	6,11,13	0.90	0
2	MLY	B	120	2	9,10,11	0.97	1 (11%)	6,11,13	0.57	0
2	MLY	B	219	2	9,10,11	1.16	2 (22%)	6,11,13	0.77	0
2	MLY	B	152	2	9,10,11	1.02	0	6,11,13	0.95	0
1	MLY	A	42	1	9,10,11	0.58	0	6,11,13	0.44	0
1	MLY	A	152	1	9,10,11	0.82	0	6,11,13	1.63	2 (33%)
2	MLY	B	83	2	9,10,11	0.65	0	6,11,13	0.43	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
1	MLY	A	118	1	-	0/8/9/11	-
1	MLY	A	11	1	-	0/8/9/11	-
2	MLY	B	177	2	-	2/8/9/11	-
2	MLY	B	120	2	-	1/8/9/11	-
2	MLY	B	219	2	-	1/8/9/11	-
2	MLY	B	152	2	-	0/8/9/11	-
1	MLY	A	42	1	-	0/8/9/11	-
1	MLY	A	152	1	-	1/8/9/11	-
2	MLY	B	83	2	-	1/8/9/11	-

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	177	MLY	CH2-NZ	-2.24	1.39	1.46
2	B	219	MLY	O-C	2.13	1.28	1.20
2	B	120	MLY	O-C	2.08	1.27	1.20
2	B	219	MLY	CB-CA	-2.02	1.50	1.53

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	152	MLY	CH2-NZ-CH1	3.11	117.69	109.72
1	A	152	MLY	CH1-NZ-CE	2.08	118.98	110.75

There are no chirality outliers.

All (6) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	B	177	MLY	O-C-CA-CB
1	A	152	MLY	CD-CE-NZ-CH1
2	B	177	MLY	CD-CE-NZ-CH2
2	B	219	MLY	CD-CE-NZ-CH2
2	B	120	MLY	CD-CE-NZ-CH1
2	B	83	MLY	CD-CE-NZ-CH2

There are no ring outliers.

2 monomers are involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	A	42	MLY	2	0
2	B	83	MLY	1	0

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 4 ligands modelled in this entry, 2 are monoatomic - leaving 2 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	$\# Z > 2$
3	PG4	B	301	-	12,12,12	0.50	0	11,11,11	0.63	0
3	PG4	A	301	-	12,12,12	0.39	0	11,11,11	0.80	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	PG4	B	301	-	-	4/10/10/10	-
3	PG4	A	301	-	-	6/10/10/10	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (10) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	301	PG4	C3-C4-O3-C5

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Mol	Chain	Res	Type	Atoms
3	A	301	PG4	O2-C3-C4-O3
3	A	301	PG4	O3-C5-C6-O4
3	B	301	PG4	C1-C2-O2-C3
3	A	301	PG4	O1-C1-C2-O2
3	A	301	PG4	O4-C7-C8-O5
3	A	301	PG4	C5-C6-O4-C7
3	B	301	PG4	O3-C5-C6-O4
3	B	301	PG4	C3-C4-O3-C5
3	B	301	PG4	C5-C6-O4-C7

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	B	301	PG4	1	0

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	213/222 (95%)	-0.03	16 (7%) 20 23	26, 40, 89, 120	0
2	B	214/222 (96%)	0.05	9 (4%) 40 44	28, 40, 78, 106	0
All	All	427/444 (96%)	0.01	25 (5%) 28 30	26, 40, 85, 120	0

All (25) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	174	ALA	7.6
2	B	2	LYS	4.6
1	A	219	LYS	3.4
1	A	173	HIS	3.3
1	A	3	ASN	3.0
1	A	218	ASP	3.0
2	B	5	PHE	2.9
2	B	12	ILE	2.8
1	A	176	ASN	2.7
1	A	178	GLU	2.5
2	B	10	ASP	2.5
1	A	181	ILE	2.5
2	B	3	ASN	2.4
2	B	116	ASN	2.4
1	A	172	GLU	2.4
1	A	32	LYS	2.4
1	A	28	VAL	2.2
2	B	118	LYS	2.2
1	A	175	GLU	2.1
2	B	47	LEU	2.1
1	A	177	LYS	2.1
1	A	18	LEU	2.1
1	A	191	ILE	2.0
2	B	15	ILE	2.0

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Mol	Chain	Res	Type	RSRZ
1	A	59	LEU	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. 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	MLY	B	83	11/12	0.93	0.12	29,52,69,69	0
1	MLY	A	42	11/12	0.94	0.13	30,58,70,74	0
2	MLY	B	120	11/12	0.95	0.10	31,58,72,72	0
2	MLY	B	177	11/12	0.95	0.09	32,46,56,56	0
1	MLY	A	118	11/12	0.96	0.09	29,43,63,63	0
2	MLY	B	152	11/12	0.96	0.11	28,52,63,63	0
1	MLY	A	11	11/12	0.96	0.09	36,57,69,69	0
2	MLY	B	219	11/12	0.96	0.07	35,48,54,55	0
1	MLY	A	152	11/12	0.98	0.06	27,36,51,51	0

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	PG4	B	301	13/13	0.87	0.14	35,62,85,94	0
3	PG4	A	301	13/13	0.90	0.13	37,56,77,94	0
4	CA	A	302	1/1	0.99	0.02	26,26,26,26	0
4	CA	B	302	1/1	0.99	0.03	28,28,28,28	0

6.5 Other polymers [i](#)

There are no such residues in this entry.