



Full wwPDB X-ray Structure Validation Report ⓘ

Oct 20, 2024 – 07:24 AM EDT

PDB ID : 3X26
Title : Crystal structure of Nitrile Hydratase mutant bR56K complexed with Trimethylacetone nitrile, photo-activated for 5 min
Authors : Yamanaka, Y.; Hashimoto, K.; Noguchi, K.; Yohda, M.; Odaka, M.
Deposited on : 2014-12-10
Resolution : 1.34 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	:	4.02b-467
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	1.20.1
EDS	:	3.0
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4	:	9.0.003 (Gargrove)
Density-Fitness	:	1.0.11
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.39

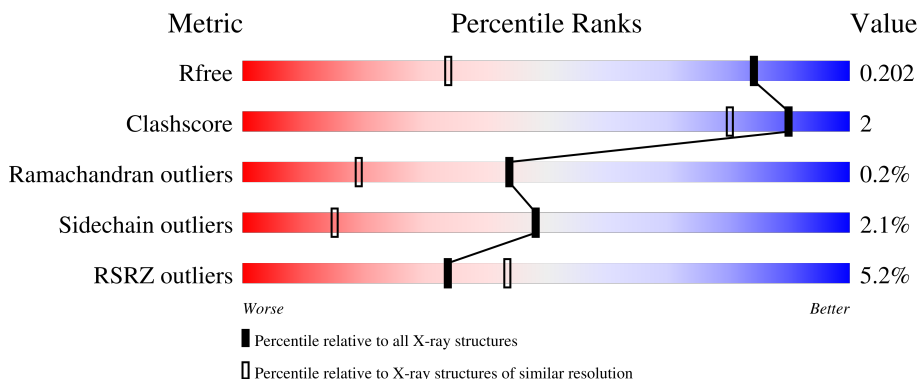
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.34 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}	164625	1904 (1.36-1.32)
Clashscore	180529	2038 (1.36-1.32)
Ramachandran outliers	177936	2016 (1.36-1.32)
Sidechain outliers	177891	2016 (1.36-1.32)
RSRZ outliers	164620	1903 (1.36-1.32)

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	207	<div> <div>6%</div> <div> <div></div> <div>82%</div> <div>12%</div> <div>• 5%</div> </div> </div>
2	B	212	<div> <div>4%</div> <div> <div></div> <div>85%</div> <div>14%</div> <div>•</div> </div> </div>

2 Entry composition

There are 7 unique types of molecules in this entry. The entry contains 3577 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 Nitrile hydratase subunit alpha.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	197	Total	C	N	O	S	0	2	0
			1560	993	262	299	6			

- Molecule 2 is a protein called Nitrile hydratase subunit beta.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	212	Total	C	N	O	S	0	5	0
			1692	1071	289	323	9			

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	56	LYS	ARG	engineered mutation	UNP P13449

- Molecule 3 is FE (III) ION (three-letter code: FE) (formula: Fe).

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

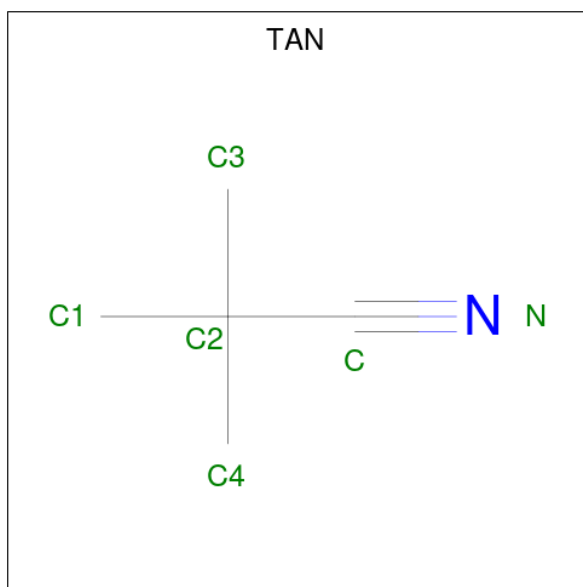
- Molecule 4 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

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

- Molecule 5 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	2	Total Cl 2 2	0	0
5	B	2	Total Cl 2 2	0	0

- Molecule 6 is 2,2-dimethylpropanenitrile (three-letter code: TAN) (formula: C₅H₉N).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	B	1	Total C N 6 5 1	0	0

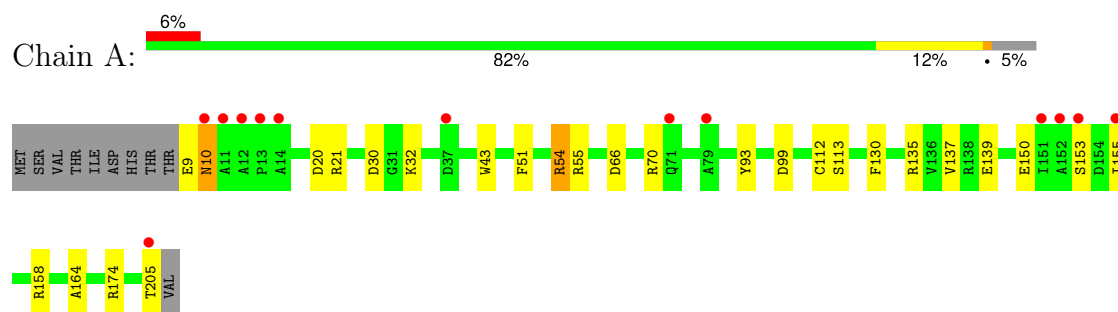
- Molecule 7 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	A	156	Total O 156 156	0	0
7	B	156	Total O 156 156	0	0

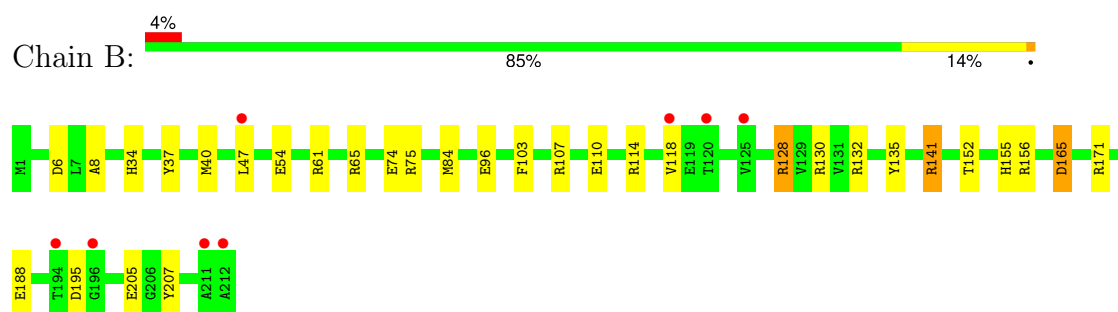
3 Residue-property plots

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: Nitrile hydratase subunit alpha



- Molecule 2: Nitrile hydratase subunit beta



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	113.86Å 59.95Å 81.59Å 90.00° 125.08° 90.00°	Depositor
Resolution (Å)	24.67 – 1.34 24.67 – 1.34	Depositor EDS
% Data completeness (in resolution range)	91.9 (24.67-1.34) 91.9 (24.67-1.34)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	5.98 (at 1.34Å)	Xtriage
Refinement program	REFMAC 5.7.0029	Depositor
R, R_{free}	0.173 , 0.194 0.181 , 0.202	Depositor DCC
R_{free} test set	4632 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	14.2	Xtriage
Anisotropy	0.046	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.41 , 39.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.51$, $\langle L^2 \rangle = 0.34$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	3577	wwPDB-VP
Average B, all atoms (Å ²)	17.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.51% 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: CSO, FE, CSD, TAN, CL, MG

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	1.40	6/1583 (0.4%)	1.42	19/2162 (0.9%)
2	B	1.45	9/1740 (0.5%)	1.42	23/2365 (1.0%)
All	All	1.43	15/3323 (0.5%)	1.42	42/4527 (0.9%)

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	1

All (15) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	9	GLU	CD-OE1	-11.79	1.12	1.25
2	B	110	GLU	CD-OE2	-7.76	1.17	1.25
2	B	141	ARG	CZ-NH2	-6.70	1.24	1.33
1	A	150	GLU	CD-OE1	-6.54	1.18	1.25
2	B	195	ASP	CG-OD2	-6.16	1.11	1.25
1	A	139	GLU	CD-OE1	-5.92	1.19	1.25
2	B	107	ARG	CZ-NH1	-5.86	1.25	1.33
1	A	43	TRP	CB-CG	-5.82	1.39	1.50
2	B	188	GLU	CD-OE1	-5.73	1.19	1.25
2	B	132	ARG	CZ-NH1	-5.70	1.25	1.33
2	B	207	TYR	CG-CD1	-5.63	1.31	1.39
1	A	135	ARG	CZ-NH1	-5.61	1.25	1.33
2	B	84	MET	C-O	5.58	1.33	1.23
2	B	74	GLU	CD-OE1	5.10	1.31	1.25
1	A	10	ASN	CG-ND2	5.07	1.45	1.32

All (42) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	130	ARG	NE-CZ-NH2	10.57	125.58	120.30
1	A	135	ARG	NE-CZ-NH2	-10.06	115.27	120.30
1	A	99	ASP	CB-CG-OD2	-10.05	109.26	118.30
2	B	107	ARG	NE-CZ-NH1	9.40	125.00	120.30
1	A	54	ARG	NE-CZ-NH2	-8.87	115.86	120.30
1	A	135	ARG	NE-CZ-NH1	8.17	124.38	120.30
1	A	54	ARG	NE-CZ-NH1	7.93	124.27	120.30
1	A	21	ARG	NE-CZ-NH2	-7.71	116.45	120.30
1	A	174	ARG	NE-CZ-NH2	-7.48	116.56	120.30
2	B	37	TYR	CB-CG-CD2	-7.28	116.63	121.00
2	B	205	GLU	OE1-CD-OE2	7.18	131.91	123.30
2	B	114	ARG	NE-CZ-NH2	7.16	123.88	120.30
1	A	70	ARG	NE-CZ-NH1	-7.05	116.78	120.30
2	B	37	TYR	CB-CG-CD1	6.97	125.18	121.00
2	B	54	GLU	OE1-CD-OE2	6.92	131.61	123.30
1	A	158	ARG	NE-CZ-NH2	-6.89	116.86	120.30
2	B	61	ARG	NE-CZ-NH2	-6.64	116.98	120.30
1	A	99	ASP	OD1-CG-OD2	6.50	135.66	123.30
2	B	130	ARG	NE-CZ-NH1	-6.50	117.05	120.30
1	A	32	LYS	CD-CE-NZ	6.46	126.57	111.70
1	A	30	ASP	CB-CG-OD1	-6.38	112.56	118.30
2	B	47	LEU	CB-CG-CD1	6.29	121.70	111.00
2	B	6	ASP	CB-CG-OD1	6.18	123.86	118.30
1	A	51	PHE	CB-CG-CD1	6.01	125.00	120.80
2	B	195	ASP	CB-CG-OD2	-5.90	112.99	118.30
2	B	107	ARG	NE-CZ-NH2	-5.81	117.39	120.30
2	B	132	ARG	NE-CZ-NH1	5.79	123.20	120.30
1	A	55	ARG	NE-CZ-NH1	5.75	123.18	120.30
1	A	130	PHE	CB-CG-CD1	5.75	124.83	120.80
1	A	9	GLU	CG-CD-OE1	-5.74	106.83	118.30
1	A	66	ASP	CB-CG-OD2	5.73	123.46	118.30
2	B	128	ARG	NE-CZ-NH2	5.69	123.14	120.30
2	B	96	GLU	OE1-CD-OE2	-5.66	116.50	123.30
1	A	20	ASP	CB-CG-OD1	-5.59	113.27	118.30
2	B	75	ARG	NE-CZ-NH2	-5.55	117.52	120.30
2	B	135	TYR	CB-CG-CD1	5.47	124.28	121.00
1	A	164	ALA	CB-CA-C	5.47	118.30	110.10
2	B	165	ASP	CB-CG-OD1	5.43	123.19	118.30
2	B	61	ARG	NE-CZ-NH1	5.26	122.93	120.30
2	B	171	ARG	NE-CZ-NH2	-5.15	117.73	120.30
2	B	156	ARG	NE-CZ-NH1	5.14	122.87	120.30
2	B	6	ASP	CB-CG-OD2	-5.09	113.72	118.30

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	B	141	ARG	Sidechain

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	1560	0	1527	4	0
2	B	1692	0	1606	10	0
3	A	1	0	0	0	0
4	A	1	0	0	0	0
4	B	1	0	0	0	0
5	A	2	0	0	0	0
5	B	2	0	0	0	0
6	B	6	0	9	2	0
7	A	156	0	0	2	0
7	B	156	0	0	1	0
All	All	3577	0	3142	11	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 2.

All (11) 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)
2:B:40[A]:MET:SD	6:B:301:TAN:N	2.24	1.10
2:B:40[A]:MET:SD	6:B:301:TAN:C	2.70	0.79
1:A:137[B]:VAL:HG21	2:B:8:ALA:HB1	1.65	0.78
1:A:137[A]:VAL:HG23	7:A:441:HOH:O	1.92	0.69
2:B:128:ARG:HH21	2:B:128:ARG:HG2	1.64	0.61
1:A:93:TYR:OH	2:B:155:HIS:HE1	1.86	0.59
2:B:152[A]:THR:O	2:B:152[A]:THR:HG23	2.12	0.49
7:A:506:HOH:O	2:B:65[B]:ARG:HD2	2.14	0.48
2:B:34:HIS:H	2:B:34:HIS:CD2	2.30	0.48
2:B:34:HIS:HE1	7:B:490:HOH:O	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:10:ASN:OD1	2:B:65[B]:ARG:NE	2.43	0.44

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	195/207 (94%)	189 (97%)	5 (3%)	1 (0%)	25	6
2	B	215/212 (101%)	211 (98%)	4 (2%)	0	100	100
All	All	410/419 (98%)	400 (98%)	9 (2%)	1 (0%)	44	19

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	113	SER

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	163/171 (95%)	159 (98%)	4 (2%)	42	10
2	B	178/173 (103%)	175 (98%)	3 (2%)	56	23
All	All	341/344 (99%)	334 (98%)	7 (2%)	48	15

All (7) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	54	ARG
1	A	153	SER
1	A	155	ILE
1	A	205	THR
2	B	103	PHE
2	B	118	VAL
2	B	165	ASP

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

Mol	Chain	Res	Type
1	A	83	GLN
2	B	21	ASN
2	B	29	HIS
2	B	34	HIS
2	B	155	HIS

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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	CSD	A	112	3,1	4,7,8	2.17	1 (25%)	1,8,10	1.22	0
1	CSO	A	114	3,1	3,6,7	1.36	0	1,6,8	0.70	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	CSD	A	112	3,1	-	1/2/6/8	-
1	CSO	A	114	3,1	-	0/1/5/7	-

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	112	CSD	OD1-SG	4.08	1.51	1.47

There are no bond angle outliers.

There are no chirality outliers.

All (1) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	A	112	CSD	CA-CB-SG-OD1

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 8 ligands modelled in this entry, 7 are 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	$\# Z > 2$
6	TAN	B	301	-	5,5,5	1.97	1 (20%)	7,7,7	1.76	2 (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
6	TAN	B	301	-	-	0/0/3/3	-

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	B	301	TAN	C-N	4.25	1.20	1.14

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	B	301	TAN	C3-C2-C	-3.43	101.21	108.23
6	B	301	TAN	C4-C2-C	-2.23	103.67	108.23

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

1 monomer is involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	B	301	TAN	2	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	195/207 (94%)	0.45	13 (6%)	25 32	7, 16, 29, 59	2 (1%)
2	B	212/212 (100%)	0.35	8 (3%)	44 55	6, 15, 26, 60	5 (2%)
All	All	407/419 (97%)	0.40	21 (5%)	34 43	6, 15, 28, 60	7 (1%)

All (21) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	B	212	ALA	6.7
1	A	205	THR	5.3
2	B	118	VAL	4.8
1	A	11	ALA	4.6
1	A	155	ILE	4.2
2	B	196	GLY	3.7
1	A	152	ALA	3.4
2	B	194	THR	3.1
1	A	153	SER	3.0
1	A	14	ALA	3.0
2	B	211	ALA	2.9
2	B	125	VAL	2.8
1	A	151	ILE	2.6
1	A	12	ALA	2.6
1	A	37	ASP	2.5
1	A	13	PRO	2.3
2	B	47	LEU	2.3
2	B	120	THR	2.2
1	A	79	ALA	2.1
1	A	10	ASN	2.1
1	A	71	GLN	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
1	CSD	A	112	8/9	0.99	0.04	9,9,10,11	0
1	CSO	A	114	7/8	0.99	0.05	10,11,12,16	0

6.3 Carbohydrates [i](#)

There are no monosaccharides 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
6	TAN	B	301	6/6	0.92	0.09	16,16,19,19	0
4	MG	A	302	1/1	0.93	0.08	16,16,16,16	1
5	CL	B	304	1/1	0.95	0.08	23,23,23,23	0
4	MG	B	302	1/1	0.97	0.11	11,11,11,11	1
5	CL	A	303	1/1	0.98	0.04	21,21,21,21	0
5	CL	B	303	1/1	0.98	0.06	22,22,22,22	0
5	CL	A	304	1/1	1.00	0.08	18,18,18,18	0
3	FE	A	301	1/1	1.00	0.01	9,9,9,9	0

6.5 Other polymers [i](#)

There are no such residues in this entry.