



# Full wwPDB X-ray Structure Validation Report

Aug 21, 2020 – 02:41 PM BST

PDB ID : 6ETE  
Title : Crystal structure of KDM4D with tetrazolhydrazide compound 5  
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Deposited on : 2017-10-26  
Resolution : 1.47 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](mailto: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.

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

MolProbity : 4.02b-467  
Mogul : 1.8.5 (274361), CSD as541be (2020)  
Xtriage (Phenix) : 1.13  
EDS : 2.13.1  
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)  
Refmac : 5.8.0158  
CCP4 : 7.0.044 (Gargrove)  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.13.1

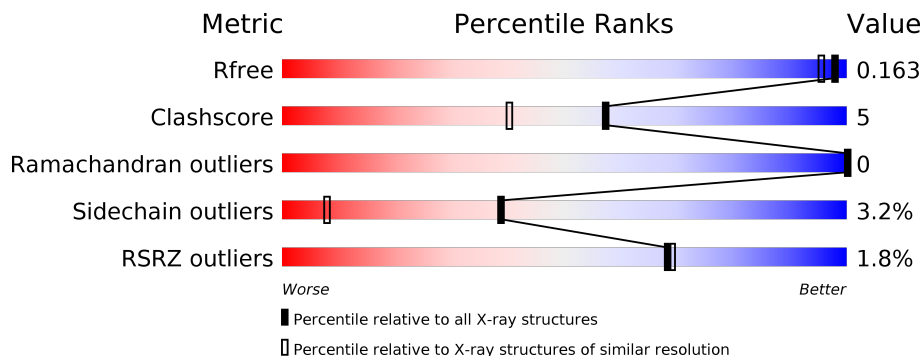
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 1.47 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))
$R_{free}$	130704	1156 (1.46-1.46)
Clashscore	141614	1202 (1.46-1.46)
Ramachandran outliers	138981	1178 (1.46-1.46)
Sidechain outliers	138945	1178 (1.46-1.46)
RSRZ outliers	127900	1139 (1.46-1.46)

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  $\geq 3$ , 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	342	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
6	BWK	A	413[B]	-	X	-	-

## 2 Entry composition [i](#)

There are 7 unique types of molecules in this entry. The entry contains 6261 atoms, of which 2932 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 Lysine-specific demethylase 4D.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
			Total	C	H	N	O				S
1	A	330	5794	1878	2880	499	519	18	0	49	0

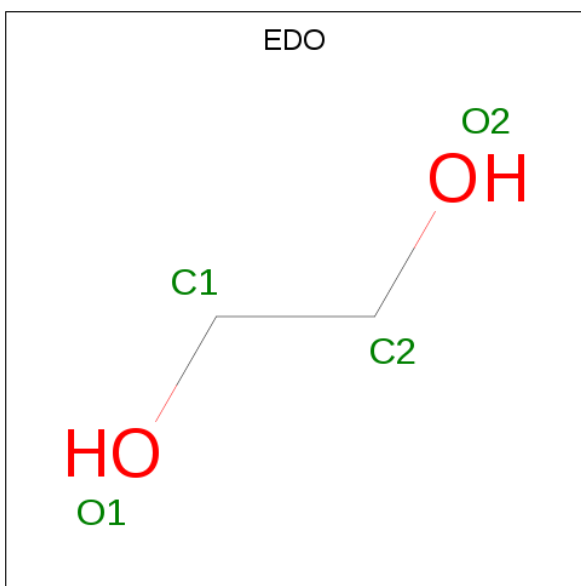
- Molecule 2 is ZINC ION (three-letter code: ZN) (formula: Zn).

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

- Molecule 3 is NICKEL (II) ION (three-letter code: NI) (formula: Ni).

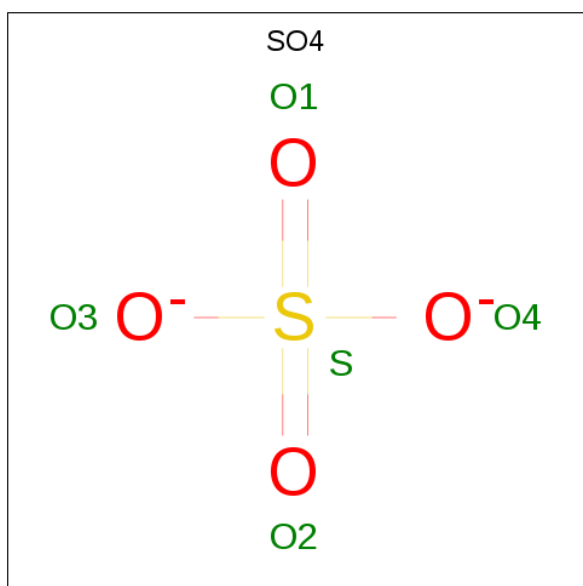
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	2	Total	Ni	0	0
			2	2		

- Molecule 4 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: C<sub>2</sub>H<sub>6</sub>O<sub>2</sub>).



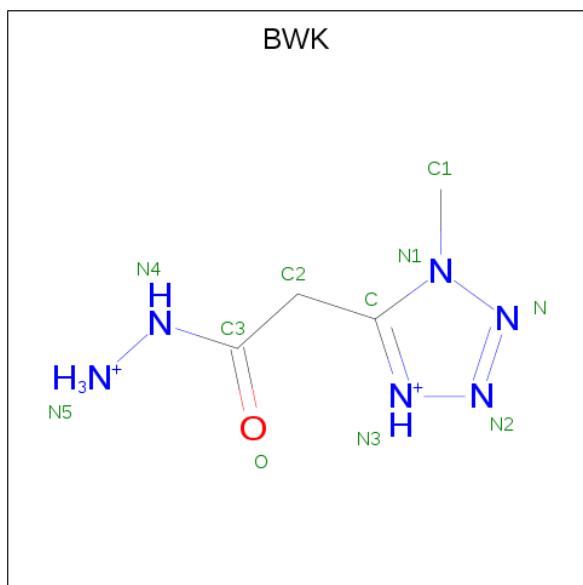
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
4	A	1	Total	C	H	O	0	0
			10	2	6	2		
4	A	1	Total	C	H	O	0	0
			10	2	6	2		
4	A	1	Total	C	H	O	0	0
			10	2	6	2		
4	A	1	Total	C	H	O	0	0
			10	2	6	2		
4	A	1	Total	C	H	O	0	0
			10	2	6	2		
4	A	1	Total	C	H	O	0	0
			10	2	6	2		

- Molecule 5 is SULFATE ION (three-letter code: SO4) (formula: O<sub>4</sub>S).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	A	1	Total	O	S	0	0
			5	4	1		
5	A	1	Total	O	S	0	1
			5	4	1		

- Molecule 6 is [2-(1-methyl-1,2,3,4-tetrazol-4-ium-5-yl)ethanoylamino]azanum (three-letter code: BWK) (formula: C<sub>4</sub>H<sub>10</sub>N<sub>6</sub>O).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	H	N	O		
6	A	1	21	4	10	6	1	0	1

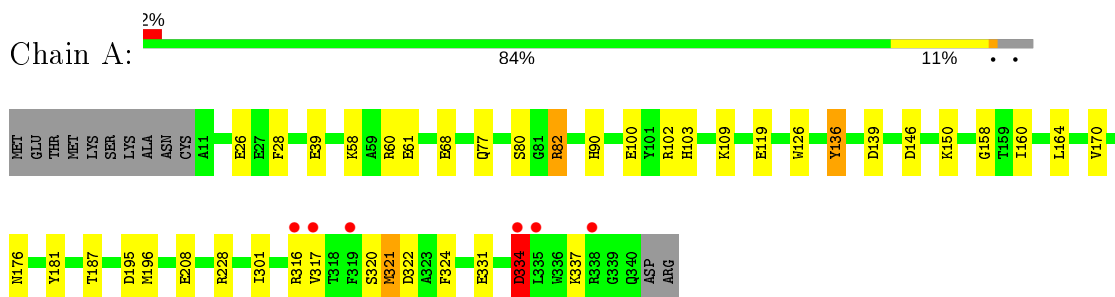
- Molecule 7 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	A	351	Total	O	0	23
			363	363		

### 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: Lysine-specific demethylase 4D



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 43 21 2	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	71.46Å 71.46Å 151.07Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	35.73 – 1.47 47.92 – 1.47	Depositor EDS
% Data completeness (in resolution range)	99.8 (35.73-1.47) 95.7 (47.92-1.47)	Depositor EDS
$R_{merge}$	0.04	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.95 (at 1.47Å)	Xtrriage
Refinement program	PHENIX	Depositor
R, $R_{free}$	0.128 , 0.153 0.132 , 0.163	Depositor DCC
$R_{free}$ test set	1113 reflections (1.65%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	17.2	Xtrriage
Anisotropy	0.130	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.41 , 58.2	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.48$ , $\langle L^2 \rangle = 0.31$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
$F_o, F_c$ correlation	0.98	EDS
Total number of atoms	6261	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	27.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.20% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

<sup>2</sup>Theoretical values of  $\langle |L| \rangle$ ,  $\langle L^2 \rangle$  for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

## 5 Model quality i

### 5.1 Standard geometry i

Bond lengths and bond angles in the following residue types are not validated in this section: NI, ZN, BWK, EDO, SO4

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	1.50	16/3152 (0.5%)	1.20	14/4265 (0.3%)

All (16) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	228[A]	ARG	N-CA	6.73	1.59	1.46
1	A	228[B]	ARG	N-CA	6.73	1.59	1.46
1	A	334[A]	ASP	CA-C	6.22	1.69	1.52
1	A	334[B]	ASP	CA-C	6.22	1.69	1.52
1	A	68	GLU	CD-OE1	-5.55	1.19	1.25
1	A	331[A]	GLU	N-CA	5.48	1.57	1.46
1	A	331[B]	GLU	N-CA	5.48	1.57	1.46
1	A	82[A]	ARG	CA-C	5.22	1.66	1.52
1	A	82[B]	ARG	CA-C	5.22	1.66	1.52
1	A	100	GLU	CD-OE1	-5.17	1.20	1.25
1	A	181	TYR	CE1-CZ	-5.15	1.31	1.38
1	A	39[A]	GLU	CG-CD	-5.12	1.44	1.51
1	A	39[B]	GLU	CG-CD	-5.12	1.44	1.51
1	A	109	LYS	CD-CE	5.09	1.64	1.51
1	A	126	TRP	CZ3-CH2	-5.07	1.31	1.40
1	A	26	GLU	CG-CD	5.04	1.59	1.51

All (14) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	322	ASP	CB-CG-OD1	8.39	125.85	118.30
1	A	102	ARG	NE-CZ-NH1	8.27	124.44	120.30
1	A	322	ASP	CB-CG-OD2	-6.77	112.21	118.30
1	A	102	ARG	NE-CZ-NH2	-6.00	117.30	120.30
1	A	139	ASP	CB-CG-OD1	5.68	123.41	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	82[A]	ARG	NE-CZ-NH1	5.62	123.11	120.30
1	A	82[B]	ARG	NE-CZ-NH1	5.62	123.11	120.30
1	A	320[A]	SER	C-N-CA	-5.26	108.55	121.70
1	A	320[B]	SER	C-N-CA	-5.26	108.55	121.70
1	A	208	GLU	OE1-CD-OE2	5.16	129.49	123.30
1	A	196[A]	MET	CG-SD-CE	-5.13	92.00	100.20
1	A	196[B]	MET	CG-SD-CE	-5.13	92.00	100.20
1	A	158[A]	GLY	N-CA-C	-5.01	100.59	113.10
1	A	158[B]	GLY	N-CA-C	-5.01	100.59	113.10

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	2914	2880	2793	29	0
2	A	1	0	0	0	0
3	A	2	0	0	0	0
4	A	28	42	41	1	0
5	A	10	0	0	0	0
6	A	11	10	0	0	0
7	A	363	0	0	6	0
All	All	3329	2932	2834	29	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 5.

All (29) 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:334[B]:ASP:OD2	7:A:502[B]:HOH:O	1.68	1.09
1:A:170:VAL:HG12	7:A:522:HOH:O	1.56	1.03
1:A:317:VAL:HG21	1:A:321[B]:MET:SD	2.29	0.72
1:A:136:TYR:HB3	1:A:187[B]:THR:HG21	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:164[B]:LEU:HD23	1:A:301:ILE:CD1	2.34	0.58
1:A:160[B]:ILE:HB	1:A:324[B]:PHE:HZ	1.70	0.56
1:A:60:ARG:HA	1:A:146[B]:ASP:OD2	2.06	0.55
1:A:164[B]:LEU:CD1	1:A:324[B]:PHE:CE2	2.90	0.54
1:A:80[B]:SER:HB2	7:A:579:HOH:O	2.09	0.53
1:A:160[B]:ILE:HB	1:A:324[B]:PHE:CZ	2.44	0.53
1:A:164[B]:LEU:HD11	1:A:324[B]:PHE:CD2	2.44	0.52
1:A:164[B]:LEU:HD12	1:A:324[B]:PHE:CE2	2.44	0.52
1:A:60:ARG:HB2	1:A:146[B]:ASP:OD1	2.13	0.49
1:A:195:ASP:HB3	1:A:321[A]:MET:CE	2.43	0.49
1:A:164[B]:LEU:CD2	1:A:301:ILE:CD1	2.91	0.48
1:A:195:ASP:HB3	1:A:321[A]:MET:HE1	1.95	0.48
1:A:160[B]:ILE:HG13	1:A:176[B]:ASN:HD21	1.79	0.48
1:A:170:VAL:CG1	7:A:522:HOH:O	2.37	0.46
1:A:160[B]:ILE:H	1:A:176[B]:ASN:HD21	1.63	0.46
1:A:160[B]:ILE:HG13	1:A:176[B]:ASN:ND2	2.30	0.46
1:A:103:HIS:HA	4:A:409:EDO:H12	1.96	0.46
1:A:164[B]:LEU:HD23	1:A:301:ILE:HD11	1.99	0.44
1:A:164[B]:LEU:HD23	1:A:164[B]:LEU:HA	1.81	0.43
1:A:337:LYS:HE2	7:A:792:HOH:O	2.17	0.43
1:A:77:GLN:HG2	1:A:90[B]:HIS:CD2	2.55	0.42
1:A:337:LYS:HA	1:A:337:LYS:HD2	1.90	0.41
1:A:82[B]:ARG:NH2	7:A:510:HOH:O	2.54	0.41
1:A:160[B]:ILE:HG13	1:A:176[B]:ASN:OD1	2.21	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	377/342 (110%)	368 (98%)	9 (2%)	0	<b>100</b> <b>100</b>

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	324/292 (111%)	312 (96%)	12 (4%)	34 5

All (12) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	28	PHE
1	A	58	LYS
1	A	61	GLU
1	A	119[A]	GLU
1	A	119[B]	GLU
1	A	136	TYR
1	A	150	LYS
1	A	316	ARG
1	A	321[A]	MET
1	A	321[B]	MET
1	A	334[A]	ASP
1	A	334[B]	ASP

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

### 5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

There are no non-standard protein/DNA/RNA residues in this entry.

## 5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

## 5.6 Ligand geometry [i](#)

Of 13 ligands modelled in this entry, 3 are monoatomic - leaving 10 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
5	SO4	A	411	-	4,4,4	1.16	1 (25%)	6,6,6	1.10	1 (16%)
6	BWK	A	413[B]	3	9,11,11	2.97	5 (55%)	9,14,14	3.46	6 (66%)
4	EDO	A	409	-	3,3,3	0.34	0	2,2,2	0.52	0
4	EDO	A	404	-	3,3,3	0.50	0	2,2,2	1.19	0
5	SO4	A	412[A]	-	4,4,4	0.11	0	6,6,6	0.62	0
4	EDO	A	405	-	3,3,3	0.61	0	2,2,2	0.19	0
4	EDO	A	410	-	3,3,3	0.47	0	2,2,2	0.82	0
4	EDO	A	406	-	3,3,3	0.37	0	2,2,2	0.38	0
4	EDO	A	408	-	3,3,3	0.33	0	2,2,2	0.39	0
4	EDO	A	407	-	3,3,3	0.38	0	2,2,2	0.89	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
6	BWK	A	413[B]	3	-	3/6/6/6	0/1/1/1
4	EDO	A	409	-	-	1/1/1/1	-
4	EDO	A	404	-	-	1/1/1/1	-
4	EDO	A	405	-	-	0/1/1/1	-
4	EDO	A	410	-	-	1/1/1/1	-
4	EDO	A	406	-	-	1/1/1/1	-
4	EDO	A	408	-	-	0/1/1/1	-
4	EDO	A	407	-	-	1/1/1/1	-

All (6) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	A	413[B]	BWK	N5-N4	-6.48	1.32	1.41
6	A	413[B]	BWK	C1-N1	-4.49	1.38	1.47
6	A	413[B]	BWK	O-C3	-2.43	1.18	1.23
6	A	413[B]	BWK	C2-C3	2.37	1.57	1.51
5	A	411	SO4	O2-S	-2.21	1.34	1.46
6	A	413[B]	BWK	C2-C	2.20	1.55	1.50

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	A	413[B]	BWK	N2-N-N1	4.71	109.86	106.02
6	A	413[B]	BWK	C-N3-N2	4.56	109.39	105.16
6	A	413[B]	BWK	C1-N1-N	4.54	124.71	117.81
6	A	413[B]	BWK	N3-N2-N	-4.20	105.36	110.09
6	A	413[B]	BWK	C3-N4-N5	-3.36	115.12	122.08
6	A	413[B]	BWK	C-N1-N	-3.30	108.21	112.70
5	A	411	SO4	O4-S-O2	2.44	122.07	109.31

There are no chirality outliers.

All (8) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
6	A	413[B]	BWK	C-C2-C3-N4
4	A	409	EDO	O1-C1-C2-O2
4	A	406	EDO	O1-C1-C2-O2
4	A	410	EDO	O1-C1-C2-O2
4	A	407	EDO	O1-C1-C2-O2
6	A	413[B]	BWK	N3-C-C2-C3
6	A	413[B]	BWK	C-C2-C3-O
4	A	404	EDO	O1-C1-C2-O2

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	A	409	EDO	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 [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, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
1	A	330/342 (96%)	-0.44	6 (1%) 68 69	13, 20, 43, 75	0

All (6) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	335	LEU	5.2
1	A	319	PHE	5.0
1	A	317	VAL	3.9
1	A	316	ARG	3.5
1	A	338	ARG	3.4
1	A	334[A]	ASP	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 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, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
4	EDO	A	407	4/4	0.84	0.12	60,72,73,74	0

*Continued on next page...*

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
5	SO4	A	412[A]	5/5	0.85	0.13	48,51,52,52	5
4	EDO	A	410	4/4	0.88	0.14	45,54,58,59	0
4	EDO	A	409	4/4	0.88	0.08	53,63,65,66	0
4	EDO	A	406	4/4	0.89	0.11	54,65,69,70	0
4	EDO	A	408	4/4	0.89	0.23	42,51,56,57	0
4	EDO	A	404	4/4	0.92	0.12	49,59,60,60	0
4	EDO	A	405	4/4	0.93	0.08	28,35,39,42	0
6	BWK	A	413[B]	11/11	0.93	0.09	18,29,37,40	0
5	SO4	A	411	5/5	0.97	0.17	41,41,45,46	5
3	NI	A	403	1/1	0.97	0.14	44,44,44,44	1
3	NI	A	402	1/1	1.00	0.07	16,16,16,16	0
2	ZN	A	401	1/1	1.00	0.06	24,24,24,24	0

## 6.5 Other polymers [i](#)

There are no such residues in this entry.