



# wwPDB X-ray Structure Validation Summary Report ⓘ

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PDB ID : 4KEU  
Title : Crystal structure of SsoPox W263M  
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Deposited on : 2013-04-26  
Resolution : 2.20 Å(reported)

This is a wwPDB X-ray Structure Validation Summary Report for a publicly released PDB entry.

We welcome your comments at [validation@mail.wwpdb.org](mailto:validation@mail.wwpdb.org)

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<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>.

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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	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	1.21
EDS	:	3.0
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4	:	9.0.004 (Gargrove)
Density-Fitness	:	1.0.11
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.41.4

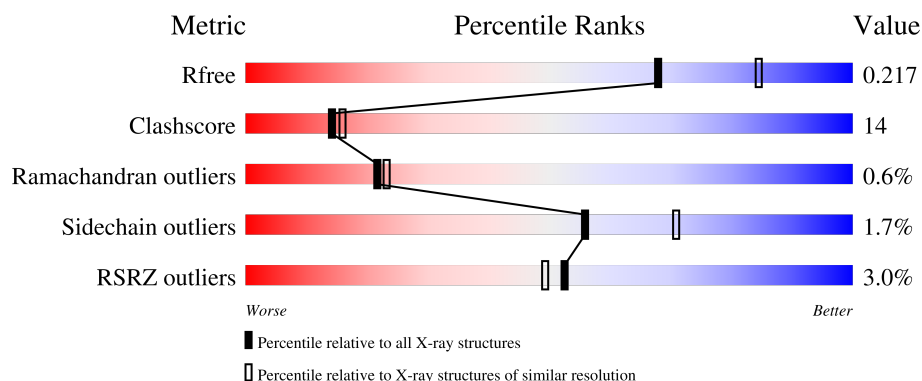
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 2.20 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	5791 (2.20-2.20)
Clashscore	180529	6634 (2.20-2.20)
Ramachandran outliers	177936	6560 (2.20-2.20)
Sidechain outliers	177891	6561 (2.20-2.20)
RSRZ outliers	164620	5791 (2.20-2.20)

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  $\geq 3$ , 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	314	<div> <div>4%</div> <div>80%</div> <div>20%</div> </div>
1	B	314	<div> <div>3%</div> <div>76%</div> <div>22%</div> <div>.</div> </div>
1	C	314	<div> <div>2%</div> <div>76%</div> <div>23%</div> <div>.</div> </div>
1	D	314	<div> <div>3%</div> <div>72%</div> <div>26%</div> <div>.</div> </div>

## 2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 10557 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 Aryldialkylphosphatase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	314	Total	C	N	O	S	0	4	0
			2548	1632	435	472	9			
1	B	314	Total	C	N	O	S	0	3	0
			2534	1625	430	470	9			
1	C	314	Total	C	N	O	S	0	3	0
			2531	1625	429	469	8			
1	D	314	Total	C	N	O	S	0	4	0
			2548	1633	435	472	8			

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	263	MET	TRP	engineered mutation	UNP Q97VT7
B	263	MET	TRP	engineered mutation	UNP Q97VT7
C	263	MET	TRP	engineered mutation	UNP Q97VT7
D	263	MET	TRP	engineered mutation	UNP Q97VT7

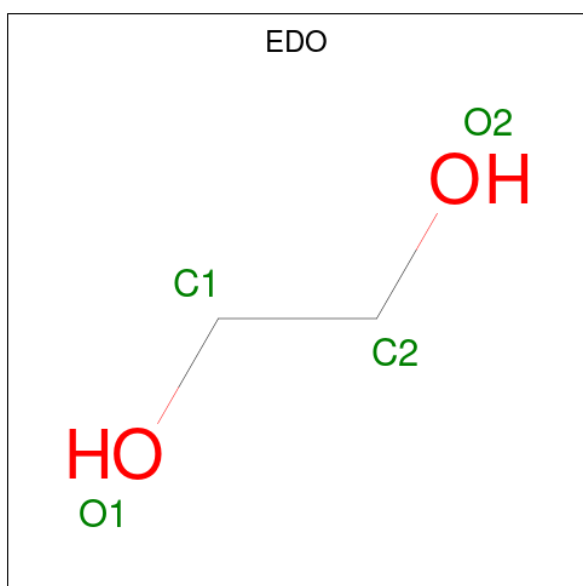
- Molecule 2 is FE (II) ION (three-letter code: FE2) (formula: Fe).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	1	Total	Fe	0	0
			1	1		
2	B	1	Total	Fe	0	0
			1	1		
2	C	1	Total	Fe	0	0
			1	1		
2	D	1	Total	Fe	0	0
			1	1		

- Molecule 3 is COBALT (II) ION (three-letter code: CO) (formula: Co).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total Co 1 1	0	0
3	B	1	Total Co 1 1	0	0
3	C	1	Total Co 1 1	0	0
3	D	1	Total Co 1 1	0	0

- Molecule 4 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula:  $C_2H_6O_2$ ).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	1	Total C O 4 2 2	0	0
4	A	1	Total C O 4 2 2	0	0
4	B	1	Total C O 4 2 2	0	0
4	D	1	Total C O 4 2 2	0	0
4	D	1	Total C O 4 2 2	0	0

- Molecule 5 is GLYCEROL (three-letter code: GOL) (formula:  $C_3H_8O_3$ ).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	A	1	Total	C	O	0	0
			6	3	3		
5	A	1	Total	C	O	0	0
			6	3	3		
5	B	1	Total	C	O	0	0
			6	3	3		
5	C	1	Total	C	O	0	0
			6	3	3		
5	D	1	Total	C	O	0	0
			6	3	3		
5	D	1	Total	C	O	0	0
			6	3	3		

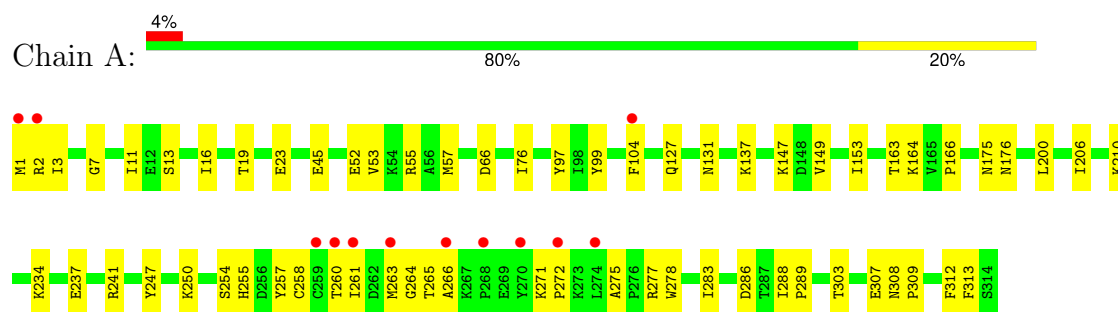
- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	88	Total	O	0	0
			88	88		
6	B	86	Total	O	0	0
			86	86		
6	C	74	Total	O	0	0
			74	74		
6	D	84	Total	O	0	0
			84	84		

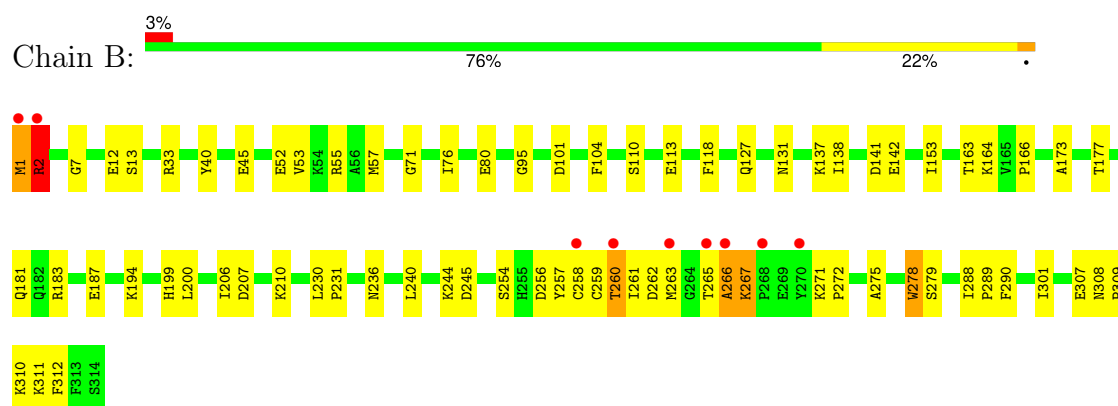
### 3 Residue-property plots [i](#)

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.

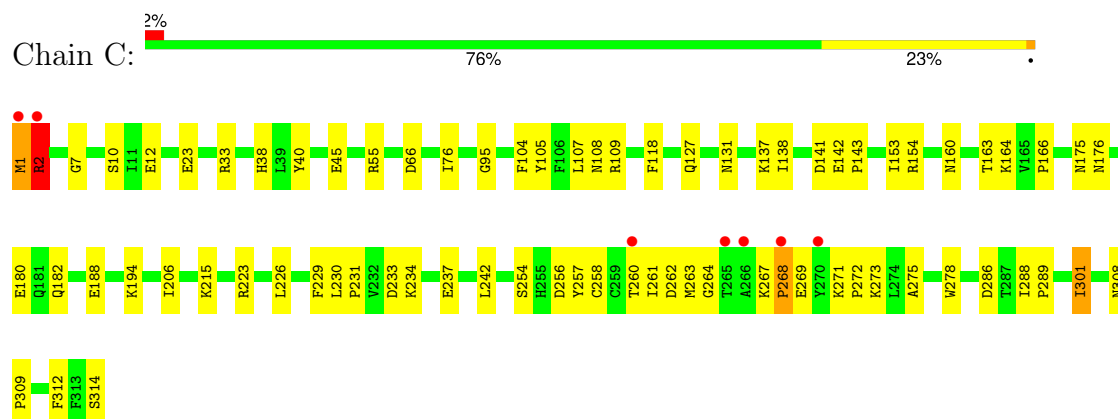
#### • Molecule 1: Aryldialkylphosphatase



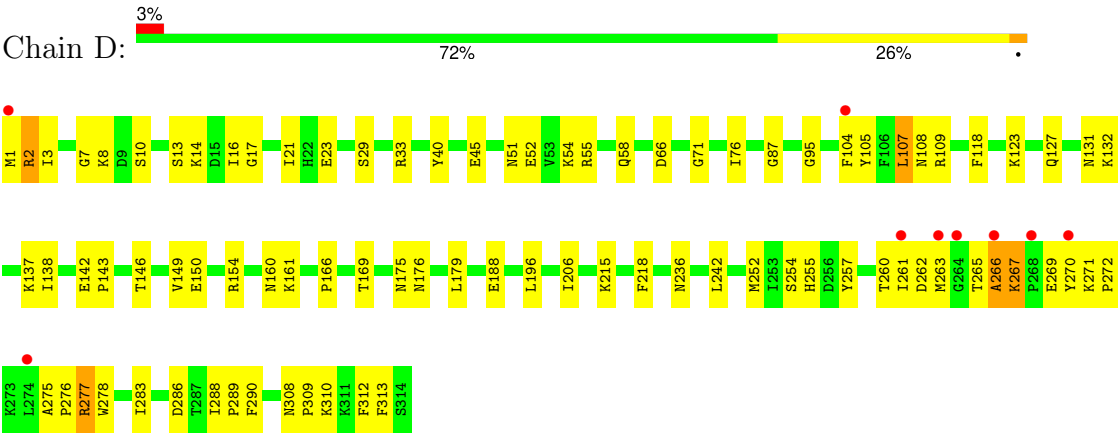
#### • Molecule 1: Aryldialkylphosphatase



#### • Molecule 1: Aryldialkylphosphatase



● Molecule 1: Aryldialkylphosphatase



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	86.82Å 103.88Å 151.61Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	49.14 – 2.20 49.14 – 2.20	Depositor EDS
% Data completeness (in resolution range)	99.9 (49.14-2.20) 99.9 (49.14-2.20)	Depositor EDS
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	4.51 (at 2.20Å)	Xtriage
Refinement program	REFMAC	Depositor
R, $R_{free}$	0.170 , 0.215 0.171 , 0.217	Depositor DCC
$R_{free}$ test set	3511 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	30.4	Xtriage
Anisotropy	0.044	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.37 , 37.8	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.49$ , $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.96	EDS
Total number of atoms	10557	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	35.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.64% 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: KCX, EDO, CO, FE2, GOL

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	1.08	0/2585	0.40	0/3486
1	B	1.05	3/2574 (0.1%)	0.40	0/3472
1	C	1.04	1/2574 (0.0%)	0.40	0/3473
1	D	1.03	0/2585	0.40	0/3487
All	All	1.05	4/10318 (0.0%)	0.40	0/13918

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	256	ASP	CB-CG	6.17	1.64	1.51
1	B	80	GLU	CG-CD	5.76	1.60	1.51
1	B	278	TRP	CD2-CE2	5.60	1.48	1.41
1	C	256	ASP	CB-CG	5.45	1.63	1.51

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

### 5.2 Too-close contacts [i](#)

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	2548	0	2583	58	0
1	B	2534	0	2572	68	0
1	C	2531	0	2572	67	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	D	2548	0	2582	109	0
2	A	1	0	0	0	0
2	B	1	0	0	0	0
2	C	1	0	0	0	0
2	D	1	0	0	0	0
3	A	1	0	0	0	0
3	B	1	0	0	0	0
3	C	1	0	0	0	0
3	D	1	0	0	0	0
4	A	8	0	12	2	0
4	B	4	0	6	0	0
4	D	8	0	12	0	0
5	A	12	0	16	0	0
5	B	6	0	8	2	0
5	C	6	0	8	1	0
5	D	12	0	16	2	0
6	A	88	0	0	6	0
6	B	86	0	0	3	0
6	C	74	0	0	2	0
6	D	84	0	0	2	0
All	All	10557	0	10387	288	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 14.

The worst 5 of 288 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:265:THR:HG22	1:C:108:ASN:ND2	1.26	1.37
1:D:2[B]:ARG:NH2	1:D:2[B]:ARG:HA	1.55	1.21
1:A:265:THR:CG2	1:C:108:ASN:ND2	2.13	1.11
1:D:277[B]:ARG:HG2	1:D:277[B]:ARG:HH11	1.00	1.08
1:C:2[A]:ARG:HH11	1:C:2[A]:ARG:CG	1.62	1.08

There are no symmetry-related clashes.

## 5.3 Torsion angles ⓘ

### 5.3.1 Protein backbone ⓘ

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	314/314 (100%)	300 (96%)	14 (4%)	0	100	100
1	B	313/314 (100%)	297 (95%)	12 (4%)	4 (1%)	10	8
1	C	314/314 (100%)	299 (95%)	12 (4%)	3 (1%)	13	12
1	D	315/314 (100%)	298 (95%)	15 (5%)	2 (1%)	22	23
All	All	1256/1256 (100%)	1194 (95%)	53 (4%)	9 (1%)	22	19

5 of 9 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	C	2[A]	ARG
1	C	2[B]	ARG
1	B	266	ALA
1	B	267	LYS
1	D	266	ALA

### 5.3.2 Protein sidechains ⓘ

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	276/272 (102%)	272 (99%)	4 (1%)	62	77
1	B	275/272 (101%)	268 (98%)	7 (2%)	42	56
1	C	275/272 (101%)	268 (98%)	7 (2%)	42	56
1	D	276/272 (102%)	269 (98%)	7 (2%)	42	56
All	All	1102/1088 (101%)	1077 (98%)	25 (2%)	56	59

5 of 25 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	C	12	GLU
1	C	301[B]	ILE
1	D	277[B]	ARG
1	C	301[A]	ILE
1	D	2[A]	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 20 such sidechains are listed below:

Mol	Chain	Res	Type
1	C	294	ASN
1	D	127	GLN
1	D	294	ASN
1	D	131	ASN
1	B	127	GLN

### 5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

4 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	KCX	A	137	3,2,1	10,11,12	2.38	2 (20%)	6,12,14	1.84	1 (16%)
1	KCX	B	137	3,2,1	10,11,12	1.32	1 (10%)	6,12,14	0.62	0
1	KCX	D	137	3,2,1	10,11,12	2.27	2 (20%)	6,12,14	1.80	1 (16%)
1	KCX	C	137	3,2,1	10,11,12	1.83	2 (20%)	6,12,14	0.54	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	KCX	A	137	3,2,1	-	0/9/10/12	-
1	KCX	B	137	3,2,1	-	1/9/10/12	-
1	KCX	D	137	3,2,1	-	0/9/10/12	-
1	KCX	C	137	3,2,1	-	1/9/10/12	-

The worst 5 of 7 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	137	KCX	OQ1-CX	6.35	1.33	1.21
1	D	137	KCX	OQ1-CX	6.20	1.33	1.21
1	C	137	KCX	OQ1-CX	4.37	1.29	1.21
1	B	137	KCX	OQ1-CX	3.15	1.27	1.21
1	A	137	KCX	CE-NZ	2.31	1.51	1.46

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	137	KCX	OQ1-CX-NZ	-4.40	118.24	124.92
1	D	137	KCX	OQ1-CX-NZ	-4.30	118.39	124.92

There are no chirality outliers.

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	B	137	KCX	C-CA-CB-CG
1	C	137	KCX	C-CA-CB-CG

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 19 ligands modelled in this entry, 8 are monoatomic - leaving 11 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
4	EDO	D	403	-	3,3,3	0.72	0	2,2,2	0.40	0
5	GOL	A	406	-	5,5,5	0.60	0	5,5,5	0.29	0
4	EDO	B	401	-	3,3,3	0.82	0	2,2,2	0.34	0
5	GOL	B	404	-	5,5,5	0.67	0	5,5,5	0.37	0
5	GOL	D	406	-	5,5,5	0.43	0	5,5,5	0.39	0
4	EDO	A	404	-	3,3,3	0.40	0	2,2,2	0.41	0
5	GOL	A	405	-	5,5,5	0.90	0	5,5,5	0.36	0
5	GOL	D	405	-	5,5,5	0.33	0	5,5,5	0.32	0
4	EDO	A	403	-	3,3,3	0.54	0	2,2,2	0.39	0
5	GOL	C	403	-	5,5,5	0.50	0	5,5,5	0.25	0
4	EDO	D	404	-	3,3,3	0.47	0	2,2,2	0.39	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
4	EDO	D	403	-	-	0/1/1/1	-
5	GOL	A	406	-	-	4/4/4/4	-
4	EDO	B	401	-	-	0/1/1/1	-
5	GOL	B	404	-	-	4/4/4/4	-
5	GOL	D	406	-	-	3/4/4/4	-
4	EDO	A	404	-	-	1/1/1/1	-
5	GOL	A	405	-	-	2/4/4/4	-
5	GOL	D	405	-	-	2/4/4/4	-
4	EDO	A	403	-	-	0/1/1/1	-
5	GOL	C	403	-	-	2/4/4/4	-
4	EDO	D	404	-	-	1/1/1/1	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

5 of 19 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	A	405	GOL	C1-C2-C3-O3
5	A	406	GOL	C1-C2-C3-O3
5	A	406	GOL	O2-C2-C3-O3
5	B	404	GOL	O1-C1-C2-C3
5	B	404	GOL	C1-C2-C3-O3

There are no ring outliers.

4 monomers are involved in 7 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	B	404	GOL	2	0
5	D	405	GOL	2	0
4	A	403	EDO	2	0
5	C	403	GOL	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	313/314 (99%)	-0.49	12 (3%) 44 41	16, 28, 55, 111	5 (1%)
1	B	313/314 (99%)	-0.46	9 (2%) 54 51	19, 30, 54, 114	4 (1%)
1	C	313/314 (99%)	-0.39	7 (2%) 62 58	18, 33, 59, 106	3 (0%)
1	D	313/314 (99%)	-0.30	9 (2%) 54 51	17, 33, 63, 106	4 (1%)
All	All	1252/1256 (99%)	-0.41	37 (2%) 52 49	16, 31, 59, 114	16 (1%)

The worst 5 of 37 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	1	MET	4.1
1	C	266	ALA	4.1
1	D	1	MET	4.0
1	B	266	ALA	3.7
1	A	1[A]	MET	3.7

### 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, 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
1	KCX	A	137	12/13	0.97	0.05	18,19,21,21	0
1	KCX	B	137	12/13	0.98	0.04	19,20,22,24	0
1	KCX	C	137	12/13	0.98	0.05	24,25,28,29	0
1	KCX	D	137	12/13	0.98	0.05	22,24,27,27	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, 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( $\text{\AA}^2$ )	Q<0.9
4	EDO	A	404	4/4	0.83	0.16	52,57,61,61	0
4	EDO	D	403	4/4	0.86	0.16	31,39,43,61	0
5	GOL	D	406	6/6	0.87	0.12	53,55,57,59	0
4	EDO	B	401	4/4	0.88	0.16	46,48,49,53	0
4	EDO	D	404	4/4	0.89	0.13	39,52,54,61	0
5	GOL	C	403	6/6	0.90	0.14	45,52,52,55	0
5	GOL	A	406	6/6	0.90	0.12	38,49,52,60	0
5	GOL	D	405	6/6	0.92	0.10	45,47,48,49	0
5	GOL	A	405	6/6	0.92	0.09	29,35,36,41	0
5	GOL	B	404	6/6	0.93	0.08	35,42,44,47	0
4	EDO	A	403	4/4	0.95	0.11	38,43,47,53	0
2	FE2	D	401	1/1	0.99	0.02	23,23,23,23	0
3	CO	B	403	1/1	1.00	0.02	24,24,24,24	0
3	CO	C	402	1/1	1.00	0.03	30,30,30,30	0
3	CO	D	402	1/1	1.00	0.02	24,24,24,24	0
2	FE2	B	402	1/1	1.00	0.02	21,21,21,21	0
2	FE2	C	401	1/1	1.00	0.02	22,22,22,22	0
2	FE2	A	401	1/1	1.00	0.02	18,18,18,18	0
3	CO	A	402	1/1	1.00	0.01	21,21,21,21	0

## 6.5 Other polymers [i](#)

There are no such residues in this entry.