



wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 6, 2026 – 06:07 AM UTC

PDB ID : 2OXG / pdb_00002oxg
Title : The SoxYZ Complex of Paracoccus pantotrophus
Authors : Sauve, V.; Berks, B.C.; Hemmings, A.M.
Deposited on : 2007-02-20
Resolution : 1.40 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

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

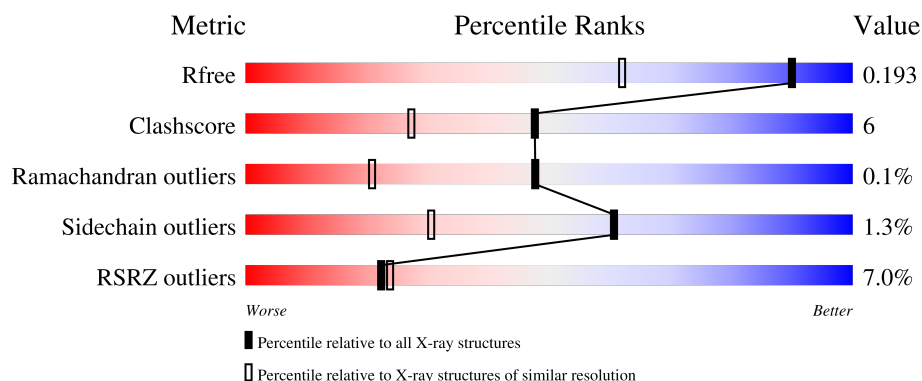
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.40 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	2563 (1.40-1.40)
Clashscore	190562	2660 (1.40-1.40)
Ramachandran outliers	187476	2611 (1.40-1.40)
Sidechain outliers	187428	2610 (1.40-1.40)
RSRZ outliers	180081	2561 (1.40-1.40)

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	108	3% 93% 6%
1	C	108	12% 87% 6% 6%
1	E	108	12% 80% 10% 8%
1	Z	108	5% 89% 11%
2	B	124	3% 82% 6% 11%

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
2	D	124	10% 80% 9% 10%
2	F	124	4% 80% 10% 10%
2	Y	124	4% 85% 6% 10%

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 7094 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 SoxZ protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	Z	108	Total	C	N	O	S	0	5	0
			843	536	140	165	2			
1	A	108	Total	C	N	O	S	0	4	0
			834	528	138	166	2			
1	C	101	Total	C	N	O	S	0	2	0
			760	481	121	156	2			
1	E	99	Total	C	N	O	S	0	3	0
			750	476	118	154	2			

- Molecule 2 is a protein called SoxY protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	Y	112	Total	C	N	O	S	0	2	0
			777	482	137	155	3			
2	B	110	Total	C	N	O	S	0	5	0
			783	491	137	152	3			
2	D	111	Total	C	N	O	S	0	5	0
			788	490	135	160	3			
2	F	112	Total	C	N	O	S	0	0	0
			774	481	135	156	2			

There are 48 discrepancies between the modelled and reference sequences:

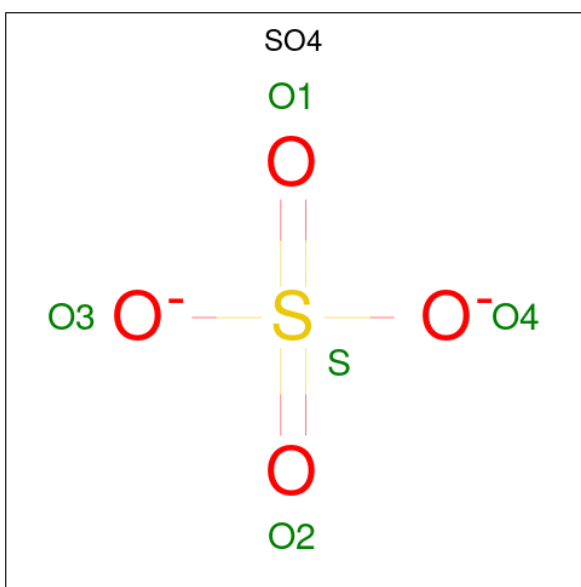
Chain	Residue	Modelled	Actual	Comment	Reference
Y	190	MET	-	cloning artifact	UNP Q9LCU9
Y	191	ARG	-	cloning artifact	UNP Q9LCU9
Y	192	GLY	-	cloning artifact	UNP Q9LCU9
Y	193	SER	-	cloning artifact	UNP Q9LCU9
Y	194	HIS	-	expression tag	UNP Q9LCU9
Y	195	HIS	-	expression tag	UNP Q9LCU9
Y	196	HIS	-	expression tag	UNP Q9LCU9
Y	197	HIS	-	expression tag	UNP Q9LCU9

Continued on next page...

Continued from previous page...

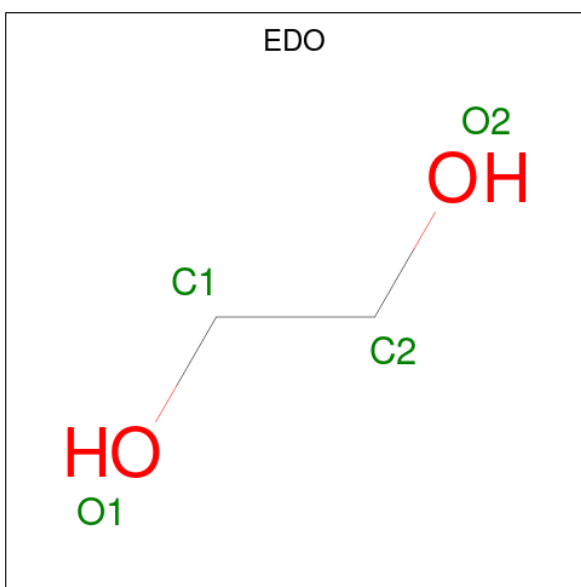
Chain	Residue	Modelled	Actual	Comment	Reference
Y	198	HIS	-	expression tag	UNP Q9LCU9
Y	199	HIS	-	expression tag	UNP Q9LCU9
Y	200	GLY	-	cloning artifact	UNP Q9LCU9
Y	201	SER	-	cloning artifact	UNP Q9LCU9
B	-11	MET	-	cloning artifact	UNP Q9LCU9
B	-10	ARG	-	cloning artifact	UNP Q9LCU9
B	-9	GLY	-	cloning artifact	UNP Q9LCU9
B	-8	SER	-	cloning artifact	UNP Q9LCU9
B	-7	HIS	-	expression tag	UNP Q9LCU9
B	-6	HIS	-	expression tag	UNP Q9LCU9
B	-5	HIS	-	expression tag	UNP Q9LCU9
B	-4	HIS	-	expression tag	UNP Q9LCU9
B	-3	HIS	-	expression tag	UNP Q9LCU9
B	-2	HIS	-	expression tag	UNP Q9LCU9
B	-1	GLY	-	cloning artifact	UNP Q9LCU9
B	0	SER	-	cloning artifact	UNP Q9LCU9
D	190	MET	-	cloning artifact	UNP Q9LCU9
D	191	ARG	-	cloning artifact	UNP Q9LCU9
D	192	GLY	-	cloning artifact	UNP Q9LCU9
D	193	SER	-	cloning artifact	UNP Q9LCU9
D	194	HIS	-	expression tag	UNP Q9LCU9
D	195	HIS	-	expression tag	UNP Q9LCU9
D	196	HIS	-	expression tag	UNP Q9LCU9
D	197	HIS	-	expression tag	UNP Q9LCU9
D	198	HIS	-	expression tag	UNP Q9LCU9
D	199	HIS	-	expression tag	UNP Q9LCU9
D	200	GLY	-	cloning artifact	UNP Q9LCU9
D	201	SER	-	cloning artifact	UNP Q9LCU9
F	191	MET	-	cloning artifact	UNP Q9LCU9
F	192	ARG	-	cloning artifact	UNP Q9LCU9
F	193	GLY	-	cloning artifact	UNP Q9LCU9
F	194	SER	-	cloning artifact	UNP Q9LCU9
F	195	HIS	-	expression tag	UNP Q9LCU9
F	196	HIS	-	expression tag	UNP Q9LCU9
F	197	HIS	-	expression tag	UNP Q9LCU9
F	198	HIS	-	expression tag	UNP Q9LCU9
F	199	HIS	-	expression tag	UNP Q9LCU9
F	200	HIS	-	expression tag	UNP Q9LCU9
F	201	GLY	-	cloning artifact	UNP Q9LCU9
F	202	SER	-	cloning artifact	UNP Q9LCU9

- Molecule 3 is SULFATE ION (CCD ID: SO4) (formula: O₄S).



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

- Molecule 4 is 1,2-ETHANEDIOL (CCD ID: EDO) (formula: C₂H₆O₂).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	Y	1	Total	C	O	0	0
			4	2	2		

Continued on next page...

Continued from previous page...

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

- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	Z	125	Total	O	0	0
			125	125		
5	Y	105	Total	O	0	0
			105	105		
5	A	126	Total	O	0	0
			126	126		
5	B	105	Total	O	0	0
			105	105		
5	C	65	Total	O	0	0
			65	65		
5	D	91	Total	O	0	0
			91	91		
5	E	57	Total	O	0	0
			57	57		
5	F	80	Total	O	0	0
			80	80		

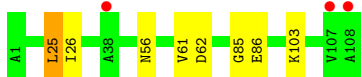
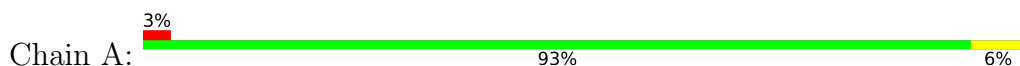
3 Residue-property plots [i](#)

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.

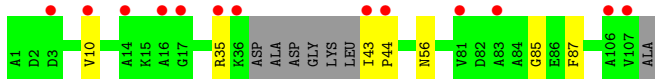
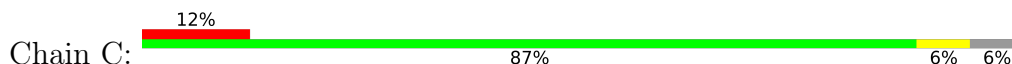
- Molecule 1: SoxZ protein



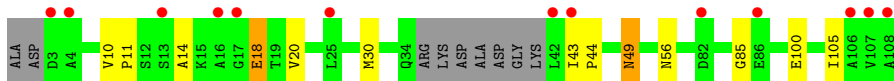
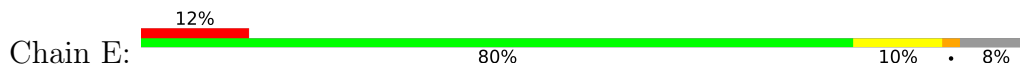
- Molecule 1: SoxZ protein



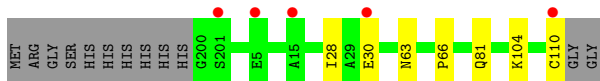
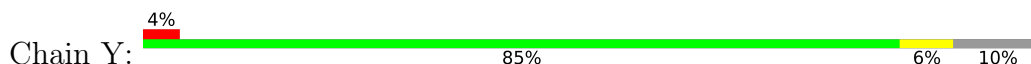
- Molecule 1: SoxZ protein



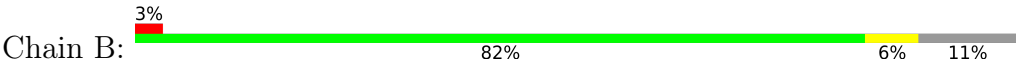
- Molecule 1: SoxZ protein



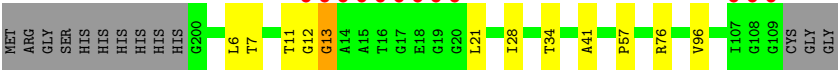
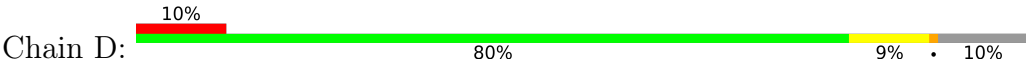
- Molecule 2: SoxY protein



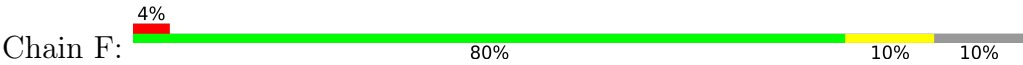
- Molecule 2: SoxY protein



• Molecule 2: SoxY protein



• Molecule 2: SoxY protein



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	206.83Å 54.72Å 77.68Å 90.00° 98.68° 90.00°	Depositor
Resolution (Å)	50.00 – 1.40 50.00 – 1.40	Depositor EDS
% Data completeness (in resolution range)	97.6 (50.00-1.40) 97.6 (50.00-1.40)	Depositor EDS
R_{merge}	0.04	Depositor
R_{sym}	0.04	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.89 (at 1.40Å)	Xtriage
Refinement program	REFMAC	Depositor
R, R_{free}	0.168 , 0.194 0.166 , 0.193	Depositor DCC
R_{free} test set	8301 reflections (4.91%)	wwPDB-VP
Wilson B-factor (Å ²)	14.8	Xtriage
Anisotropy	0.368	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.39 , 46.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	7094	wwPDB-VP
Average B, all atoms (Å ²)	19.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 20.93 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 7.8069e-03. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

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 [i](#)

5.1 Standard geometry [i](#)

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

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	0.65	0/858	0.80	0/1167
1	C	0.54	0/783	0.78	0/1069
1	E	0.57	0/774	0.80	0/1055
1	Z	0.67	0/870	0.86	0/1182
2	B	0.67	0/805	0.75	0/1096
2	D	0.64	0/802	0.77	0/1095
2	F	0.68	0/783	0.79	0/1069
2	Y	0.68	0/793	0.77	0/1082
All	All	0.64	0/6468	0.79	0/8815

There are no bond length outliers.

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	834	0	816	5	0
1	C	760	0	718	4	0
1	E	750	0	709	11	0
1	Z	843	0	840	13	0
2	B	783	0	822	7	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	D	788	0	802	17	0
2	F	774	0	785	9	0
2	Y	777	0	792	11	1
3	A	5	0	0	0	0
3	D	5	0	0	0	0
3	Z	5	0	0	0	0
4	B	8	0	12	2	0
4	F	4	0	6	0	0
4	Y	4	0	6	2	0
5	A	126	0	0	1	1
5	B	105	0	0	3	0
5	C	65	0	0	0	0
5	D	91	0	0	1	0
5	E	57	0	0	5	0
5	F	80	0	0	2	0
5	Y	105	0	0	1	0
5	Z	125	0	0	4	0
All	All	7094	0	6308	71	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 6.

The worst 5 of 71 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:Y:63[B]:ASN:ND2	2:D:13:GLY:HA2	1.31	1.42
2:Y:63[B]:ASN:ND2	2:D:13:GLY:CA	2.03	1.21
2:B:103:VAL:HG13	5:B:892:HOH:O	1.42	1.17
2:Y:63[B]:ASN:HD21	2:D:13:GLY:HA2	1.28	0.94
2:Y:63[B]:ASN:HD21	2:D:13:GLY:CA	1.75	0.92

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)
2:Y:66:PRO:O	5:A:913:HOH:O[4_645]	2.19	0.01

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	110/108 (102%)	107 (97%)	3 (3%)	0	100	100
1	C	99/108 (92%)	97 (98%)	2 (2%)	0	100	100
1	E	98/108 (91%)	96 (98%)	2 (2%)	0	100	100
1	Z	111/108 (103%)	108 (97%)	3 (3%)	0	100	100
2	B	113/124 (91%)	111 (98%)	2 (2%)	0	100	100
2	D	114/124 (92%)	106 (93%)	7 (6%)	1 (1%)	14	2
2	F	110/124 (89%)	107 (97%)	3 (3%)	0	100	100
2	Y	112/124 (90%)	109 (97%)	3 (3%)	0	100	100
All	All	867/928 (93%)	841 (97%)	25 (3%)	1 (0%)	48	21

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	D	13	GLY

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	90/89 (101%)	87 (97%)	3 (3%)	33	7
1	C	82/89 (92%)	82 (100%)	0	100	100
1	E	81/89 (91%)	79 (98%)	2 (2%)	42	11
1	Z	92/89 (103%)	91 (99%)	1 (1%)	65	37

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	B	78/85 (92%)	78 (100%)	0	100	100
2	D	78/85 (92%)	77 (99%)	1 (1%)	61	30
2	F	76/85 (89%)	76 (100%)	0	100	100
2	Y	77/85 (91%)	75 (97%)	2 (3%)	40	11
All	All	654/696 (94%)	645 (99%)	9 (1%)	61	28

5 of 9 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	E	18	GLU
1	E	49	ASN
1	A	25[A]	LEU
1	A	25[B]	LEU
1	A	103	LYS

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	56	ASN
1	C	59	ASN
1	E	49	ASN
2	F	63	ASN
2	F	100	GLN

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

7 ligands 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	$\# Z > 2$
3	SO4	Z	802	-	4,4,4	0.27	0	6,6,6	0.17	0
4	EDO	B	806	-	3,3,3	0.69	0	2,2,2	0.21	0
4	EDO	F	804	-	3,3,3	0.64	0	2,2,2	0.24	0
3	SO4	D	801	-	4,4,4	0.28	0	6,6,6	0.14	0
3	SO4	A	803	-	4,4,4	0.22	0	6,6,6	0.22	0
4	EDO	Y	805	-	3,3,3	0.52	0	2,2,2	0.05	0
4	EDO	B	807	-	3,3,3	0.52	0	2,2,2	0.24	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	B	806	-	-	0/1/1/1	-
4	EDO	Y	805	-	-	1/1/1/1	-
4	EDO	F	804	-	-	0/1/1/1	-
4	EDO	B	807	-	-	0/1/1/1	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (1) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	Y	805	EDO	O1-C1-C2-O2

There are no ring outliers.

3 monomers are involved in 4 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	B	806	EDO	1	0
4	Y	805	EDO	2	0
4	B	807	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, 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	108/108 (100%)	-0.17	3 (2%) 55 57	4, 13, 26, 37	4 (3%)
1	C	101/108 (93%)	0.61	13 (12%) 7 8	9, 22, 36, 39	2 (1%)
1	E	99/108 (91%)	0.84	13 (13%) 7 8	11, 23, 38, 44	3 (3%)
1	Z	108/108 (100%)	-0.06	5 (4%) 37 39	5, 14, 26, 33	5 (4%)
2	B	110/124 (88%)	-0.17	4 (3%) 46 48	6, 13, 23, 31	5 (4%)
2	D	111/124 (89%)	0.46	12 (10%) 11 11	8, 19, 33, 43	5 (4%)
2	F	112/124 (90%)	0.16	5 (4%) 38 40	10, 19, 26, 37	0
2	Y	112/124 (90%)	-0.02	5 (4%) 38 40	7, 15, 24, 35	2 (1%)
All	All	861/928 (92%)	0.19	60 (6%) 22 24	4, 17, 33, 44	26 (3%)

The worst 5 of 60 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	108	ALA	9.0
1	C	107	VAL	6.1
2	B	110	CYS	5.9
1	E	4	ALA	5.4
1	A	38	ALA	5.1

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
3	SO4	D	801	5/5	0.77	0.14	57,57,57,58	0
4	EDO	Y	805	4/4	0.82	0.17	28,31,32,32	0
3	SO4	A	803	5/5	0.83	0.17	42,43,45,47	0
4	EDO	B	807	4/4	0.86	0.13	26,31,33,38	0
3	SO4	Z	802	5/5	0.89	0.10	54,54,55,55	0
4	EDO	B	806	4/4	0.90	0.10	23,26,28,30	0
4	EDO	F	804	4/4	0.96	0.07	14,17,20,21	0

6.5 Other polymers [i](#)

There are no such residues in this entry.