



# wwPDB X-ray Structure Validation Summary Report ⓘ

Oct 3, 2023 – 03:30 PM EDT

PDB ID : 6UIO  
Title : Crystal structure of mouse CRES (Cystatin-Related Epididymal Spermatogenic)  
Authors : Dominguez, M.J.; Cornwall, G.A.; Hewetson, A.; Sutton, R.B.  
Deposited on : 2019-10-01  
Resolution : 1.83 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)

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>.

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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 : 2.35.1  
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) : 2.35.1

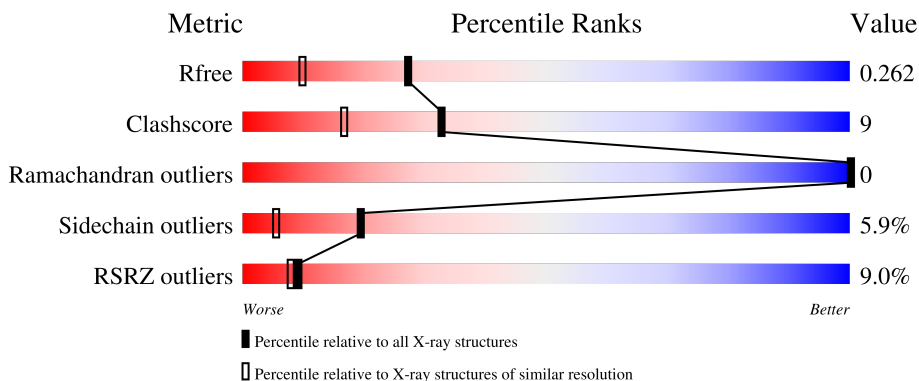
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 1.83 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	4003 (1.86-1.82)
Clashscore	141614	4233 (1.86-1.82)
Ramachandran outliers	138981	4185 (1.86-1.82)
Sidechain outliers	138945	4186 (1.86-1.82)
RSRZ outliers	127900	3957 (1.86-1.82)

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	112	 5% 90% 10%
1	B	112	 11% 79% 13% 5% •
1	C	112	 12% 81% 17% •
1	D	112	 7% 84% 12% ••

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
2	IOD	B	202	-	-	X	-
2	IOD	D	201	-	-	X	-
2	IOD	D	202	-	-	X	-
2	IOD	D	204	-	-	X	-
3	SO4	B	208	-	-	X	-
3	SO4	D	212	-	-	X	-
4	I2I	D	209	-	-	X	-
6	MES	D	215	-	-	-	X
7	NA	D	219	-	-	-	X

## 2 Entry composition [i](#)

There are 8 unique types of molecules in this entry. The entry contains 7642 atoms, of which 3695 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 Cystatin-8.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
			Total	C	H	N	O				S
1	A	112	1816	578	906	153	172	7	0	0	0
1	B	110	1855	588	931	157	172	7	0	8	0
1	C	112	1828	581	912	154	174	7	0	2	0
1	D	110	1834	582	920	156	169	7	0	4	0

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	48	ALA	CYS	engineered mutation	UNP P32766
B	48	ALA	CYS	engineered mutation	UNP P32766
C	48	ALA	CYS	engineered mutation	UNP P32766
D	48	ALA	CYS	engineered mutation	UNP P32766

- Molecule 2 is IODIDE ION (three-letter code: IOD) (formula: I).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	5	Total	I	0	0
			5	5		
2	B	2	Total	I	0	0
			2	2		
2	C	7	Total	I	0	0
			7	7		
2	D	8	Total	I	0	0
			8	8		

- Molecule 3 is SULFATE ION (three-letter code: SO4) (formula: O<sub>4</sub>S).



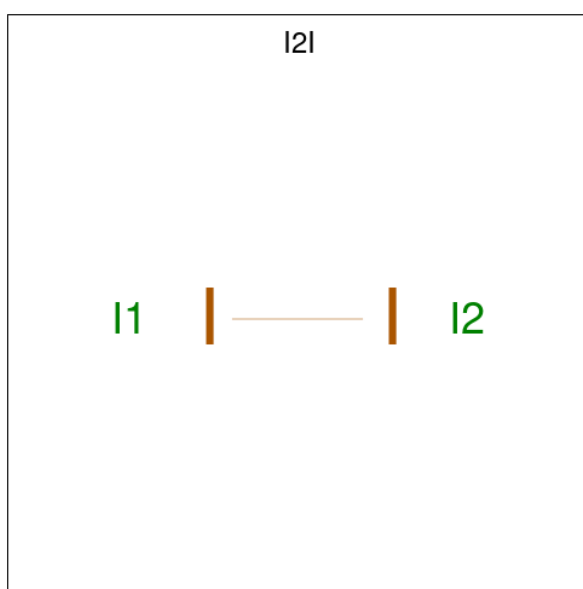
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	O	S	0	0
			5	4	1		
3	A	1	Total	O	S	0	0
			5	4	1		
3	A	1	Total	O	S	0	0
			5	4	1		
3	A	1	Total	O	S	0	0
			5	4	1		
3	A	1	Total	O	S	0	0
			5	4	1		
3	B	1	Total	O	S	0	0
			5	4	1		
3	B	1	Total	O	S	0	0
			5	4	1		
3	B	1	Total	O	S	0	0
			5	4	1		
3	B	1	Total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

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

- Molecule 4 is molecular iodine (three-letter code: I2I) (formula: I<sub>2</sub>).

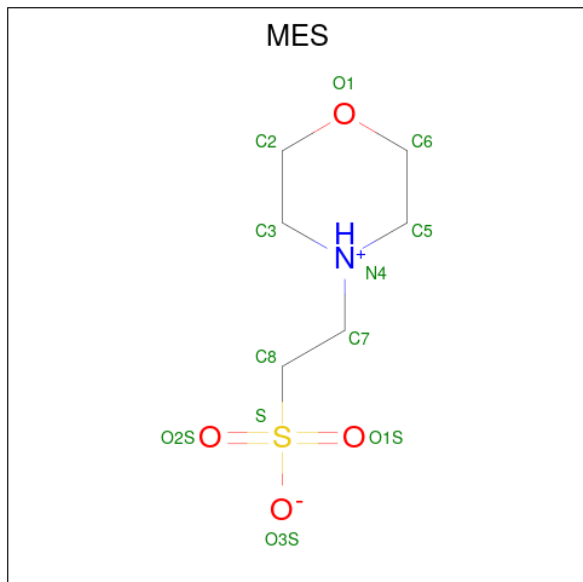


Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	B	1	Total	I	0	0
			2	2		
4	D	1	Total	I	0	0
			2	2		

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

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	B	3	Total	Cl	0	0
			3	3		
5	C	3	Total	Cl	0	0
			3	3		
5	D	2	Total	Cl	0	0
			2	2		

- Molecule 6 is 2-(N-MORPHOLINO)-ETHANESULFONIC ACID (three-letter code: MES) (formula: C<sub>6</sub>H<sub>13</sub>NO<sub>4</sub>S).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	
			Total	C	H	N	O			S
6	C	1	Total	C	H	N	O	S	0	0
			25	6	13	1	4	1		
6	D	1	Total	C	H	N	O	S	0	0
			25	6	13	1	4	1		

- Molecule 7 is SODIUM ION (three-letter code: NA) (formula: Na).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	Na		
7	C	2	Total	Na	0	0
			2	2		
7	D	4	Total	Na	0	0
			4	4		

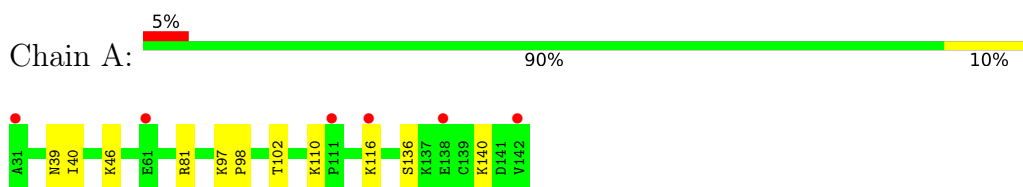
- Molecule 8 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	O		
8	A	40	Total	O	0	0
			40	40		
8	B	30	Total	O	0	0
			30	30		
8	C	25	Total	O	0	0
			25	25		
8	D	34	Total	O	0	0
			34	34		

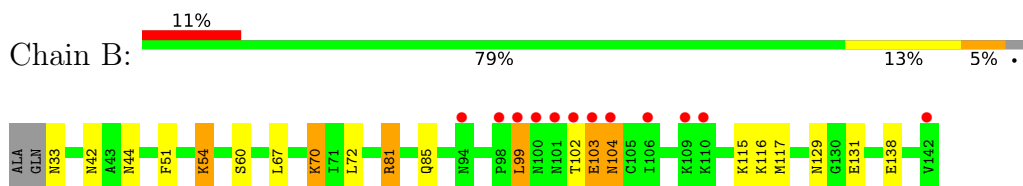
### 3 Residue-property plots [i](#)

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.

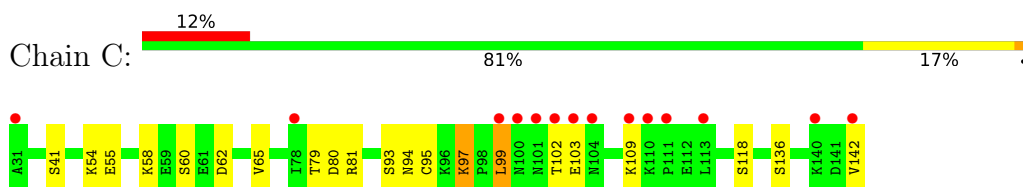
- Molecule 1: Cystatin-8



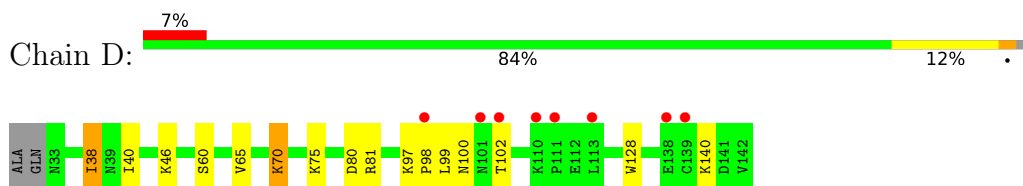
- Molecule 1: Cystatin-8



- Molecule 1: Cystatin-8



- Molecule 1: Cystatin-8





## 4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	51.05Å 85.92Å 111.68Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	31.53 – 1.83 31.53 – 1.83	Depositor EDS
% Data completeness (in resolution range)	88.8 (31.53-1.83) 88.8 (31.53-1.83)	Depositor EDS
$R_{merge}$	0.08	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	2.30 (at 1.83Å)	Xtrriage
Refinement program	PHENIX 1.17.1_3660	Depositor
R, $R_{free}$	0.224 , 0.262 0.224 , 0.262	Depositor DCC
$R_{free}$ test set	3937 reflections (10.01%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	34.2	Xtrriage
Anisotropy	0.184	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.42 , 49.9	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.49$ , $\langle L^2 \rangle = 0.32$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
$F_o, F_c$ correlation	0.95	EDS
Total number of atoms	7642	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	50.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.53% 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: IOD, CL, MES, SO4, I2I, NA

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	0.72	0/927	0.84	0/1245
1	B	0.81	0/981	0.94	0/1315
1	C	0.75	0/939	0.88	0/1261
1	D	0.73	0/948	0.84	0/1272
All	All	0.75	0/3795	0.88	0/5093

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	910	906	906	9	0
1	B	924	931	889	15	0
1	C	916	912	907	17	0
1	D	914	920	903	19	0
2	A	5	0	0	4	0
2	B	2	0	0	2	0
2	C	7	0	0	2	0
2	D	8	0	0	10	0
3	A	30	0	0	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	B	30	0	0	2	0
3	C	15	0	0	0	0
3	D	15	0	0	3	0
4	B	2	0	0	1	0
4	D	2	0	0	3	0
5	B	3	0	0	0	0
5	C	3	0	0	0	0
5	D	2	0	0	0	0
6	C	12	13	13	4	0
6	D	12	13	13	1	0
7	C	2	0	0	0	0
7	D	4	0	0	0	0
8	A	40	0	0	2	0
8	B	30	0	0	4	0
8	C	25	0	0	0	0
8	D	34	0	0	5	0
All	All	3947	3695	3631	65	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 9.

The worst 5 of 65 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:D:99:LEU:HD12	2:D:202:IOD:I	1.78	1.53
2:D:207:IOD:I	8:D:332:HOH:O	2.28	1.19
1:D:81[A]:ARG:NH1	2:D:204:IOD:I	2.50	1.15
1:D:99:LEU:CD1	2:D:202:IOD:I	2.69	1.10
1:D:102:THR:HG23	8:D:324:HOH:O	1.51	1.09

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	110/112 (98%)	108 (98%)	2 (2%)	0	100	100
1	B	116/112 (104%)	114 (98%)	2 (2%)	0	100	100
1	C	112/112 (100%)	111 (99%)	1 (1%)	0	100	100
1	D	112/112 (100%)	108 (96%)	4 (4%)	0	100	100
All	All	450/448 (100%)	441 (98%)	9 (2%)	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	103/103 (100%)	100 (97%)	3 (3%)	42	25
1	B	109/103 (106%)	97 (89%)	12 (11%)	6	1
1	C	105/103 (102%)	99 (94%)	6 (6%)	20	6
1	D	106/103 (103%)	102 (96%)	4 (4%)	33	15
All	All	423/412 (103%)	398 (94%)	25 (6%)	19	5

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

Mol	Chain	Res	Type
1	B	116	LYS
1	C	97	LYS
1	D	140	LYS
1	C	60	SER
1	C	99	LEU

Sometimes 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 58 ligands modelled in this entry, 36 are monoatomic - leaving 22 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	SO4	B	206	-	4,4,4	0.32	0	6,6,6	0.08	0
6	MES	D	215	-	12,12,12	0.83	0	14,16,16	0.24	0
3	SO4	A	207	-	4,4,4	0.40	0	6,6,6	0.08	0
3	SO4	A	208	-	4,4,4	0.35	0	6,6,6	0.04	0
3	SO4	C	208	-	4,4,4	0.36	0	6,6,6	0.18	0
3	SO4	B	208	-	4,4,4	1.36	0	6,6,6	0.15	0
3	SO4	B	204	-	4,4,4	0.40	0	6,6,6	0.11	0
3	SO4	B	205	-	4,4,4	0.51	0	6,6,6	0.15	0
3	SO4	C	209	-	4,4,4	0.41	0	6,6,6	0.06	0
3	SO4	A	210	-	4,4,4	0.45	0	6,6,6	0.07	0
4	I2I	D	209	-	1,1,1	0.56	0	-		
3	SO4	D	211	-	4,4,4	0.34	0	6,6,6	0.08	0
3	SO4	A	211	-	4,4,4	0.36	0	6,6,6	0.05	0
3	SO4	D	210	-	4,4,4	0.47	0	6,6,6	0.15	0
3	SO4	C	210	-	4,4,4	0.35	0	6,6,6	0.12	0
6	MES	C	214	-	12,12,12	0.76	0	14,16,16	0.71	1 (7%)
3	SO4	A	209	-	4,4,4	0.36	0	6,6,6	0.08	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
3	SO4	A	206	-	4,4,4	0.37	0	6,6,6	0.08	0
4	I2I	B	203	-	1,1,1	0.22	0	-		
3	SO4	B	209	-	4,4,4	1.07	0	6,6,6	0.23	0
3	SO4	B	207	-	4,4,4	0.39	0	6,6,6	0.13	0
3	SO4	D	212	-	4,4,4	0.31	0	6,6,6	0.14	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	MES	D	215	-	-	1/6/14/14	0/1/1/1
6	MES	C	214	-	-	1/6/14/14	0/1/1/1

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	C	214	MES	O1S-S-C8	-2.09	104.40	106.92

There are no chirality outliers.

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
6	C	214	MES	N4-C7-C8-S
6	D	215	MES	C8-C7-N4-C5

There are no ring outliers.

8 monomers are involved in 15 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	D	215	MES	1	0
3	B	208	SO4	2	0
3	A	210	SO4	1	0
4	D	209	I2I	3	0
3	D	210	SO4	1	0
6	C	214	MES	4	0
4	B	203	I2I	1	0
3	D	212	SO4	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 [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	112/112 (100%)	0.46	6 (5%) 25 23	26, 38, 59, 70	0
1	B	110/112 (98%)	0.84	12 (10%) 5 4	27, 42, 78, 102	0
1	C	112/112 (100%)	0.87	14 (12%) 3 3	24, 41, 97, 126	0
1	D	110/112 (98%)	0.45	8 (7%) 15 13	24, 39, 82, 101	0
All	All	444/448 (99%)	0.65	40 (9%) 9 8	24, 40, 77, 126	0

The worst 5 of 40 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	101	ASN	12.4
1	C	100	ASN	7.7
1	C	102	THR	7.7
1	B	102	THR	5.7
1	B	98	PRO	5.7

### 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( $\text{\AA}^2$ )	Q<0.9
3	SO4	A	208	5/5	0.52	0.38	143,143,143,144	0
6	MES	D	215	12/12	0.56	0.49	170,177,212,212	0
3	SO4	C	210	5/5	0.60	0.33	118,118,120,121	0
3	SO4	A	211	5/5	0.60	0.31	113,113,116,116	0
7	NA	D	219	1/1	0.71	0.78	86,86,86,86	0
3	SO4	A	209	5/5	0.72	0.26	98,101,101,101	0
6	MES	C	214	12/12	0.74	0.36	91,104,118,121	0
3	SO4	D	211	5/5	0.79	0.17	81,82,85,88	0
5	CL	B	211	1/1	0.87	0.18	43,43,43,43	0
3	SO4	A	207	5/5	0.88	0.18	61,64,67,69	0
3	SO4	A	206	5/5	0.88	0.23	74,80,84,88	0
5	CL	B	210	1/1	0.90	0.20	51,51,51,51	0
2	IOD	C	203	1/1	0.92	0.04	67,67,67,67	0
3	SO4	B	204	5/5	0.92	0.20	67,68,81,82	0
3	SO4	D	212	5/5	0.92	0.15	61,64,73,76	0
3	SO4	C	208	5/5	0.92	0.16	48,53,62,64	0
3	SO4	B	205	5/5	0.93	0.28	62,65,77,81	0
2	IOD	A	201	1/1	0.93	0.05	86,86,86,86	0
5	CL	C	211	1/1	0.94	0.09	43,43,43,43	0
5	CL	D	214	1/1	0.94	0.17	58,58,58,58	0
4	I2I	B	203	2/2	0.94	0.05	63,63,63,65	0
2	IOD	B	202	1/1	0.94	0.07	97,97,97,97	0
7	NA	D	216	1/1	0.94	0.26	38,38,38,38	0
3	SO4	D	210	5/5	0.94	0.20	55,57,72,78	0
2	IOD	D	207	1/1	0.95	0.28	158,158,158,158	0
2	IOD	A	204	1/1	0.95	0.07	95,95,95,95	0
2	IOD	A	202	1/1	0.95	0.05	62,62,62,62	0
3	SO4	B	209	5/5	0.95	0.24	76,78,83,83	0
2	IOD	A	203	1/1	0.95	0.04	66,66,66,66	0
2	IOD	D	206	1/1	0.95	0.05	78,78,78,78	0
3	SO4	B	208	5/5	0.96	0.14	48,57,64,68	0
3	SO4	A	210	5/5	0.96	0.16	49,56,63,70	0
7	NA	C	215	1/1	0.96	0.35	31,31,31,31	0
2	IOD	C	202	1/1	0.96	0.05	51,51,51,51	0
3	SO4	B	207	5/5	0.96	0.22	63,67,75,76	0
5	CL	C	213	1/1	0.97	0.21	31,31,31,31	0
5	CL	D	213	1/1	0.97	0.05	46,46,46,46	0
7	NA	C	216	1/1	0.97	0.40	43,43,43,43	0
4	I2I	D	209	2/2	0.97	0.06	49,49,49,68	0
7	NA	D	218	1/1	0.97	0.36	45,45,45,45	0
3	SO4	B	206	5/5	0.97	0.13	48,49,59,62	0
5	CL	B	212	1/1	0.98	0.13	38,38,38,38	0
2	IOD	D	203	1/1	0.98	0.09	44,44,44,44	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
3	SO4	C	209	5/5	0.98	0.08	49,50,56,56	0
2	IOD	C	201	1/1	0.98	0.08	45,45,45,45	0
2	IOD	C	206	1/1	0.98	0.05	64,64,64,64	0
2	IOD	D	208	1/1	0.98	0.07	47,47,47,47	0
2	IOD	C	204	1/1	0.99	0.05	49,49,49,49	0
2	IOD	C	205	1/1	0.99	0.03	48,48,48,48	0
2	IOD	A	205	1/1	0.99	0.03	55,55,55,55	0
2	IOD	C	207	1/1	0.99	0.03	49,49,49,49	0
2	IOD	D	201	1/1	0.99	0.07	82,82,82,82	0
2	IOD	D	202	1/1	0.99	0.06	97,97,97,97	0
2	IOD	B	201	1/1	0.99	0.04	48,48,48,48	0
2	IOD	D	204	1/1	0.99	0.06	47,47,47,47	0
7	NA	D	217	1/1	0.99	0.31	23,23,23,23	0
2	IOD	D	205	1/1	0.99	0.04	51,51,51,51	0
5	CL	C	212	1/1	0.99	0.16	32,32,32,32	0

## 6.5 Other polymers [i](#)

There are no such residues in this entry.