



# wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 5, 2026 – 07:59 PM UTC

PDB ID : 5XTW / pdb\_00005xtw  
Title : Crystal structure of the CysR-CTLD2 fragment of human MR at acidic pH  
Authors : He, Y.; Hu, Z.  
Deposited on : 2017-06-21  
Resolution : 3.20 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 : 4-5-2 with Phenix2.0  
Mogul : 2022.3.0, CSD as543be (2022)  
Xtrriage (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

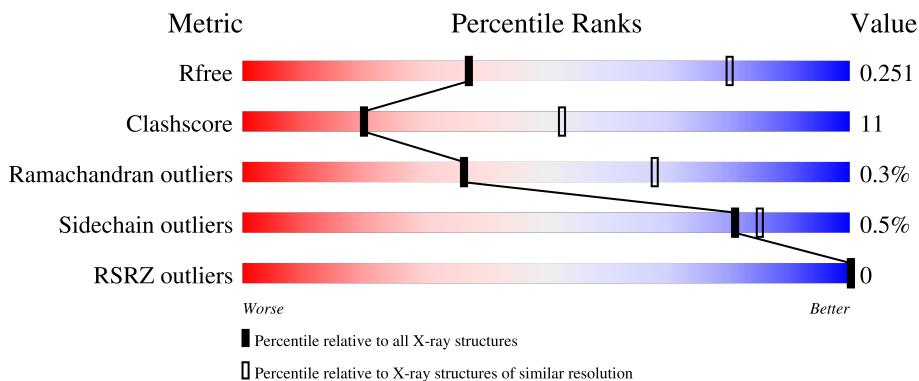
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 3.20 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))
$R_{free}$	180053	1466 (3.20-3.20)
Clashscore	190562	1573 (3.20-3.20)
Ramachandran outliers	187476	1548 (3.20-3.20)
Sidechain outliers	187428	1547 (3.20-3.20)
RSRZ outliers	180081	1466 (3.20-3.20)

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	475	
1	B	475	
1	C	475	
1	D	475	
1	E	475	

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Mol	Chain	Length	Quality of chain
1	F	475	 72% 21% 7%
1	G	475	 74% 19% 7%
1	H	475	 66% 26% 7%

## 2 Entry composition [i](#)

There are 3 unique types of molecules in this entry. The entry contains 28716 atoms, of which 104 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 Macrophage mannose receptor 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	443	3570	2267	602	676	25	0	0	0
1	B	443	3570	2267	602	676	25	0	0	0
1	C	441	3549	2256	595	673	25	0	0	0
1	D	443	3570	2267	602	676	25	0	0	0
1	E	444	3577	2271	603	678	25	0	0	0
1	F	442	3561	2263	599	674	25	0	0	0
1	G	443	3563	2260	601	677	25	0	0	0
1	H	441	3550	2257	595	673	25	0	0	0

There are 48 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	491	HIS	-	expression tag	UNP P22897
A	492	HIS	-	expression tag	UNP P22897
A	493	HIS	-	expression tag	UNP P22897
A	494	HIS	-	expression tag	UNP P22897
A	495	HIS	-	expression tag	UNP P22897
A	496	HIS	-	expression tag	UNP P22897
B	491	HIS	-	expression tag	UNP P22897
B	492	HIS	-	expression tag	UNP P22897
B	493	HIS	-	expression tag	UNP P22897
B	494	HIS	-	expression tag	UNP P22897
B	495	HIS	-	expression tag	UNP P22897
B	496	HIS	-	expression tag	UNP P22897
C	491	HIS	-	expression tag	UNP P22897

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Chain	Residue	Modelled	Actual	Comment	Reference
C	492	HIS	-	expression tag	UNP P22897
C	493	HIS	-	expression tag	UNP P22897
C	494	HIS	-	expression tag	UNP P22897
C	495	HIS	-	expression tag	UNP P22897
C	496	HIS	-	expression tag	UNP P22897
D	491	HIS	-	expression tag	UNP P22897
D	492	HIS	-	expression tag	UNP P22897
D	493	HIS	-	expression tag	UNP P22897
D	494	HIS	-	expression tag	UNP P22897
D	495	HIS	-	expression tag	UNP P22897
D	496	HIS	-	expression tag	UNP P22897
E	491	HIS	-	expression tag	UNP P22897
E	492	HIS	-	expression tag	UNP P22897
E	493	HIS	-	expression tag	UNP P22897
E	494	HIS	-	expression tag	UNP P22897
E	495	HIS	-	expression tag	UNP P22897
E	496	HIS	-	expression tag	UNP P22897
F	491	HIS	-	expression tag	UNP P22897
F	492	HIS	-	expression tag	UNP P22897
F	493	HIS	-	expression tag	UNP P22897
F	494	HIS	-	expression tag	UNP P22897
F	495	HIS	-	expression tag	UNP P22897
F	496	HIS	-	expression tag	UNP P22897
G	491	HIS	-	expression tag	UNP P22897
G	492	HIS	-	expression tag	UNP P22897
G	493	HIS	-	expression tag	UNP P22897
G	494	HIS	-	expression tag	UNP P22897
G	495	HIS	-	expression tag	UNP P22897
G	496	HIS	-	expression tag	UNP P22897
H	491	HIS	-	expression tag	UNP P22897
H	492	HIS	-	expression tag	UNP P22897
H	493	HIS	-	expression tag	UNP P22897
H	494	HIS	-	expression tag	UNP P22897
H	495	HIS	-	expression tag	UNP P22897
H	496	HIS	-	expression tag	UNP P22897

- Molecule 2 is 2-(N-MORPHOLINO)-ETHANESULFONIC ACID (CCD ID: 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
2	A	1	Total	C	H	N	O	S	0	0
			25	6	13	1	4	1		
2	B	1	Total	C	H	N	O	S	0	0
			25	6	13	1	4	1		
2	C	1	Total	C	H	N	O	S	0	0
			25	6	13	1	4	1		
2	D	1	Total	C	H	N	O	S	0	0
			25	6	13	1	4	1		
2	E	1	Total	C	H	N	O	S	0	0
			25	6	13	1	4	1		
2	F	1	Total	C	H	N	O	S	0	0
			25	6	13	1	4	1		
2	G	1	Total	C	H	N	O	S	0	0
			25	6	13	1	4	1		
2	H	1	Total	C	H	N	O	S	0	0
			25	6	13	1	4	1		

- Molecule 3 is CALCIUM ION (CCD ID: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	Ca		
3	A	1	Total	Ca	0	0
			1	1		
3	C	1	Total	Ca	0	0
			1	1		
3	D	1	Total	Ca	0	0
			1	1		
3	E	1	Total	Ca	0	0
			1	1		

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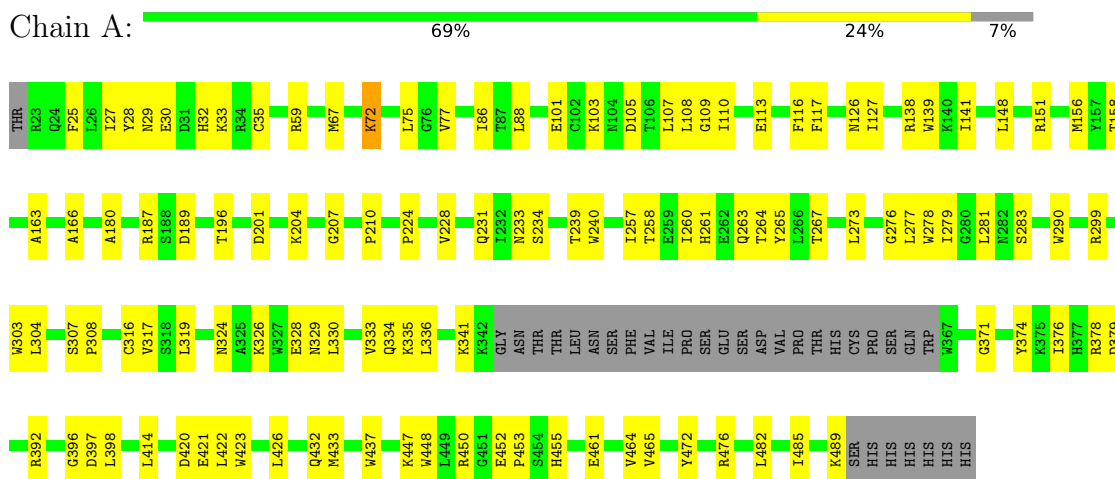
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	F	1	Total 1	Ca 1	0	0
3	H	1	Total 1	Ca 1	0	0

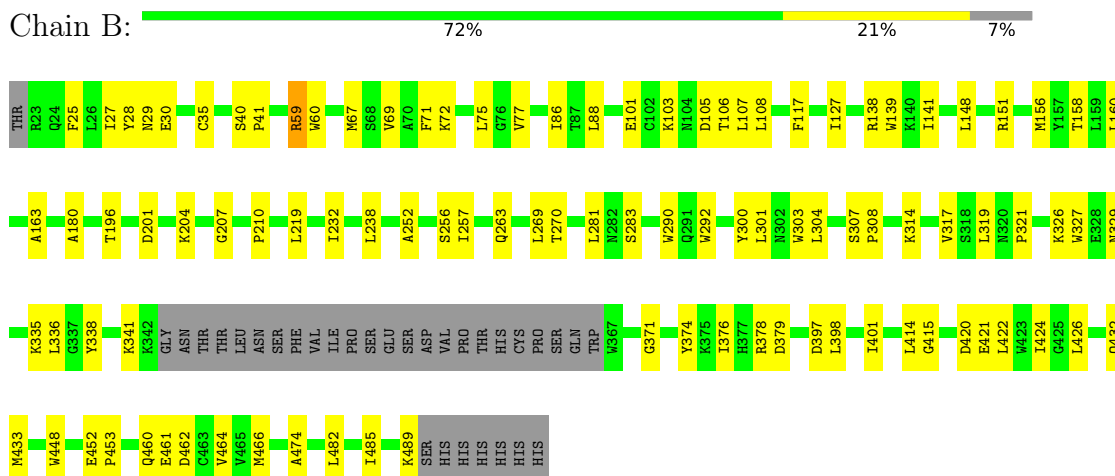
### 3 Residue-property plots [i](#)

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: Macrophage mannose receptor 1



- Molecule 1: Macrophage mannose receptor 1

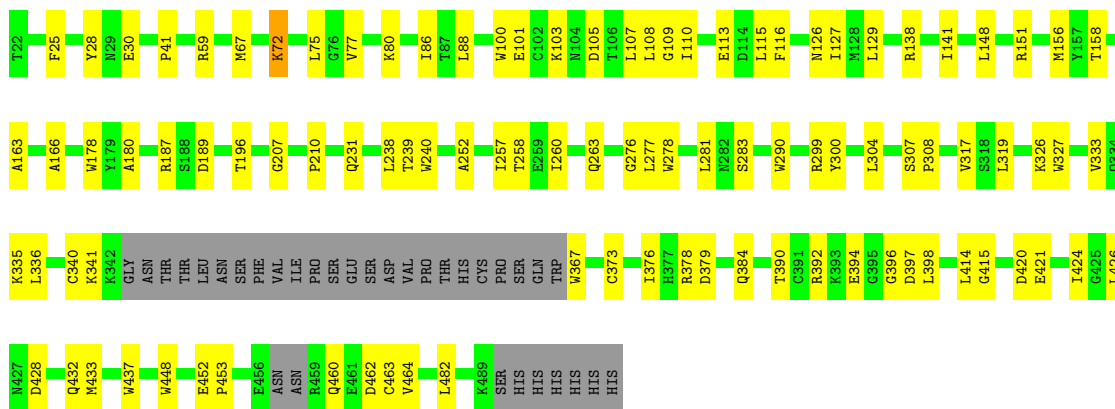


- Molecule 1: Macrophage mannose receptor 1





Chain F: 72% 21% 7%



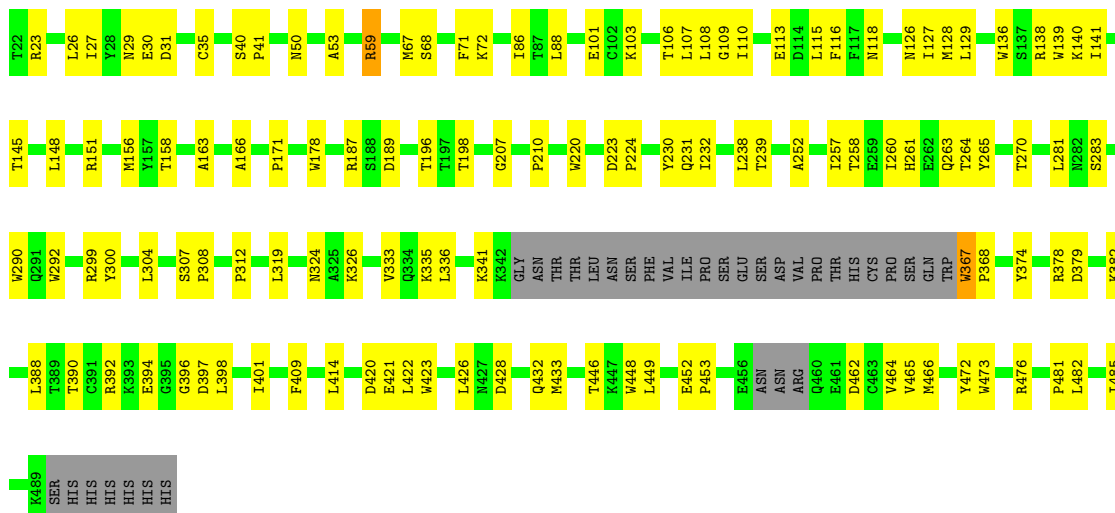
● Molecule 1: Macrophage mannose receptor 1

Chain G: 74% 19% 7%



● Molecule 1: Macrophage mannose receptor 1

Chain H: 66% 26% 7%



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	43.82Å 164.77Å 164.60Å 91.11° 97.56° 97.50°	Depositor
Resolution (Å)	27.94 – 3.20 27.94 – 3.20	Depositor EDS
% Data completeness (in resolution range)	96.1 (27.94-3.20) 91.9 (27.94-3.20)	Depositor EDS
$R_{merge}$	0.14	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	2.30 (at 3.18Å)	Xtrriage
Refinement program	PHENIX 1.10.1_2155	Depositor
R, $R_{free}$	0.211 , 0.248 0.211 , 0.251	Depositor DCC
$R_{free}$ test set	2019 reflections (2.81%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	42.9	Xtrriage
Anisotropy	0.548	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.30 , 13.3	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.49$ , $\langle L^2 \rangle = 0.32$	Xtrriage
Estimated twinning fraction	0.000 for h,-h-l,k 0.000 for h,l,-h-k 0.406 for h,-h-k,-h-l 0.003 for -h,-k,h+l 0.005 for -h,h+k,-l 0.058 for -h,-l,-k 0.057 for -h,h+l,h+k	Xtrriage
$F_o, F_c$ correlation	0.94	EDS
Total number of atoms	28716	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	14.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 10.35% 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: CA, MES

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	0.11	0/3668	0.31	0/4968
1	B	0.10	0/3668	0.32	0/4968
1	C	0.11	0/3646	0.31	0/4938
1	D	0.10	0/3668	0.31	0/4968
1	E	0.11	0/3675	0.31	0/4978
1	F	0.11	0/3658	0.32	0/4953
1	G	0.11	0/3659	0.31	0/4954
1	H	0.10	0/3647	0.31	0/4939
All	All	0.11	0/29289	0.31	0/39666

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	3570	0	3392	91	0
1	B	3570	0	3393	75	0
1	C	3549	0	3371	86	0
1	D	3570	0	3392	79	0
1	E	3577	0	3400	87	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	F	3561	0	3386	73	0
1	G	3563	0	3391	63	0
1	H	3550	0	3373	102	0
2	A	12	13	13	0	0
2	B	12	13	13	0	0
2	C	12	13	13	0	0
2	D	12	13	13	0	0
2	E	12	13	13	2	0
2	F	12	13	13	0	0
2	G	12	13	13	1	0
2	H	12	13	13	0	0
3	A	1	0	0	0	0
3	C	1	0	0	0	0
3	D	1	0	0	0	0
3	E	1	0	0	0	0
3	F	1	0	0	0	0
3	H	1	0	0	0	0
All	All	28612	104	27202	634	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 11.

The worst 5 of 634 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:72:LYS:NZ	1:D:178:TRP:O	2.09	0.84
1:A:264:THR:CG2	1:H:265:TYR:HB2	2.08	0.83
1:E:103:LYS:O	1:E:107:LEU:HB2	1.78	0.83
1:A:265:TYR:HB2	1:H:264:THR:CG2	2.08	0.83
1:E:422:LEU:HD12	1:E:485:ILE:HD11	1.60	0.82

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	439/475 (92%)	416 (95%)	22 (5%)	1 (0%)	43	73
1	B	439/475 (92%)	413 (94%)	24 (6%)	2 (0%)	24	59
1	C	435/475 (92%)	412 (95%)	22 (5%)	1 (0%)	43	73
1	D	439/475 (92%)	412 (94%)	25 (6%)	2 (0%)	24	59
1	E	440/475 (93%)	415 (94%)	23 (5%)	2 (0%)	24	59
1	F	436/475 (92%)	413 (95%)	22 (5%)	1 (0%)	43	73
1	G	439/475 (92%)	414 (94%)	23 (5%)	2 (0%)	24	59
1	H	435/475 (92%)	414 (95%)	21 (5%)	0	100	100
All	All	3502/3800 (92%)	3309 (94%)	182 (5%)	11 (0%)	36	68

5 of 11 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	461	GLU
1	D	461	GLU
1	G	457	ASN
1	E	105	ASP
1	G	105	ASP

### 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	387/418 (93%)	385 (100%)	2 (0%)	81	85
1	B	387/418 (93%)	386 (100%)	1 (0%)	86	88
1	C	385/418 (92%)	383 (100%)	2 (0%)	81	85
1	D	387/418 (93%)	385 (100%)	2 (0%)	81	85
1	E	388/418 (93%)	386 (100%)	2 (0%)	81	85
1	F	386/418 (92%)	384 (100%)	2 (0%)	81	85

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	G	387/418 (93%)	385 (100%)	2 (0%)	81	85
1	H	385/418 (92%)	383 (100%)	2 (0%)	81	85
All	All	3092/3344 (92%)	3077 (100%)	15 (0%)	81	85

5 of 15 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	E	59	ARG
1	H	59	ARG
1	E	72	LYS
1	H	367	TRP
1	G	59	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 29 such sidechains are listed below:

Mol	Chain	Res	Type
1	E	302	ASN
1	H	334	GLN
1	F	24	GLN
1	H	121	ASN
1	E	377	HIS

### 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 oligosaccharides in this entry.

### 5.6 Ligand geometry [i](#)

Of 14 ligands modelled in this entry, 6 are monoatomic - leaving 8 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
2	MES	A	501	-	12,12,12	2.36	1 (8%)	15,16,16	1.47	1 (6%)
2	MES	C	501	-	12,12,12	2.34	1 (8%)	15,16,16	1.45	1 (6%)
2	MES	G	501	-	12,12,12	2.35	1 (8%)	15,16,16	1.41	1 (6%)
2	MES	E	501	-	12,12,12	2.35	1 (8%)	15,16,16	1.47	1 (6%)
2	MES	H	501	-	12,12,12	2.35	1 (8%)	15,16,16	1.57	2 (13%)
2	MES	D	501	-	12,12,12	2.40	1 (8%)	15,16,16	1.38	2 (13%)
2	MES	B	501	-	12,12,12	2.36	1 (8%)	15,16,16	1.40	1 (6%)
2	MES	F	501	-	12,12,12	2.36	1 (8%)	15,16,16	1.46	2 (13%)

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
2	MES	A	501	-	-	3/6/14/14	0/1/1/1
2	MES	C	501	-	-	1/6/14/14	0/1/1/1
2	MES	G	501	-	-	3/6/14/14	0/1/1/1
2	MES	E	501	-	-	1/6/14/14	0/1/1/1
2	MES	H	501	-	-	2/6/14/14	0/1/1/1
2	MES	D	501	-	-	1/6/14/14	0/1/1/1
2	MES	B	501	-	-	1/6/14/14	0/1/1/1
2	MES	F	501	-	-	1/6/14/14	0/1/1/1

The worst 5 of 8 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	D	501	MES	C8-S	-8.06	1.66	1.77
2	F	501	MES	C8-S	-7.94	1.66	1.77
2	A	501	MES	C8-S	-7.94	1.66	1.77
2	B	501	MES	C8-S	-7.91	1.66	1.77
2	H	501	MES	C8-S	-7.88	1.66	1.77

The worst 5 of 11 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	501	MES	C6-C5-N4	-3.06	105.47	110.12
2	H	501	MES	C6-C5-N4	-3.01	105.54	110.12
2	F	501	MES	C6-C5-N4	-2.90	105.72	110.12
2	E	501	MES	C6-C5-N4	-2.78	105.89	110.12
2	B	501	MES	C6-C5-N4	-2.76	105.92	110.12

There are no chirality outliers.

5 of 13 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	501	MES	C7-C8-S-O1S
2	G	501	MES	C7-C8-S-O2S
2	G	501	MES	C7-C8-S-O3S
2	H	501	MES	C8-C7-N4-C3
2	A	501	MES	C7-C8-S-O2S

There are no ring outliers.

2 monomers are involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	G	501	MES	1	0
2	E	501	MES	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	443/475 (93%)	-1.52	0 100 100	4, 11, 29, 71	0
1	B	443/475 (93%)	-1.55	0 100 100	4, 11, 32, 86	0
1	C	441/475 (92%)	-1.55	0 100 100	4, 11, 33, 97	0
1	D	443/475 (93%)	-1.52	0 100 100	4, 11, 32, 80	0
1	E	444/475 (93%)	-1.52	0 100 100	3, 11, 31, 59	0
1	F	442/475 (93%)	-1.51	0 100 100	4, 11, 30, 55	0
1	G	443/475 (93%)	-1.53	0 100 100	4, 10, 28, 58	0
1	H	441/475 (92%)	-1.54	0 100 100	5, 12, 31, 59	0
All	All	3540/3800 (93%)	-1.53	0 100 100	3, 11, 31, 97	0

There are no RSRZ outliers to report.

### 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, 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
2	MES	E	501	12/12	0.97	0.07	20,30,36,40	0
2	MES	A	501	12/12	0.98	0.05	12,36,46,48	0
2	MES	G	501	12/12	0.98	0.06	16,35,56,59	0
2	MES	B	501	12/12	0.99	0.03	23,39,53,57	0
2	MES	F	501	12/12	0.99	0.04	16,33,43,43	0
2	MES	D	501	12/12	0.99	0.04	21,36,47,47	0
2	MES	H	501	12/12	0.99	0.04	20,31,51,61	0
3	CA	C	502	1/1	0.99	0.03	38,38,38,38	0
3	CA	F	502	1/1	0.99	0.02	44,44,44,44	0
3	CA	H	502	1/1	0.99	0.04	40,40,40,40	0
3	CA	D	502	1/1	1.00	0.01	38,38,38,38	0
3	CA	E	502	1/1	1.00	0.06	38,38,38,38	0
3	CA	A	502	1/1	1.00	0.01	38,38,38,38	0
2	MES	C	501	12/12	1.00	0.03	15,34,61,70	0

## 6.5 Other polymers [i](#)

There are no such residues in this entry.