



# Full wwPDB X-ray Structure Validation Report ⓘ

Feb 1, 2016 – 02:23 AM GMT

PDB ID : 2GWG  
Title : Crystal Structure of 4-Oxalomesaconate Hydratase, LigJ, from Rhodopseudomonas palustris, Northeast Structural Genomics Target RpR66.  
Authors : Forouhar, F.; Abashidze, M.; Jayaraman, S.; Cunningham, K.; Cio, M.; Ma, L.; Xiao, R.; Acton, T.B.; Montelione, G.T.; Hunt, J.F.; Tong, L.; Northeast Structural Genomics Consortium (NESG)  
Deposited on : 2006-05-04  
Resolution : 1.80 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  
<http://wwpdb.org/validation/2016/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 : 1.7 (RC4), CSD as536be (2015)  
Xtriage (Phenix) : 1.9-1692  
EDS : rb-20026688  
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)  
Refmac : 5.8.0135  
CCP4 : 6.5.0  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : trunk26865

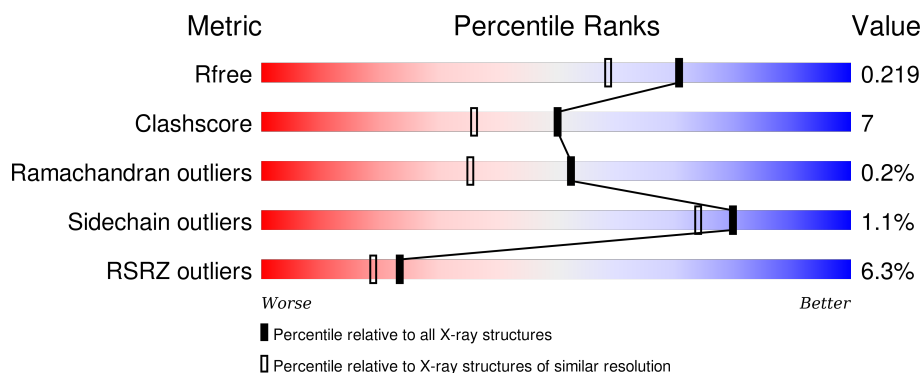
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

## *X-RAY DIFFRACTION*


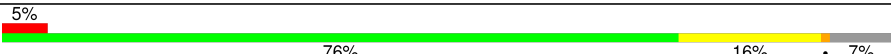
The reported resolution of this entry is 1.80 Å.

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))
$R_{free}$	91344	4533 (1.80-1.80)
Clashscore	102246	5383 (1.80-1.80)
Ramachandran outliers	100387	5320 (1.80-1.80)
Sidechain outliers	100360	5319 (1.80-1.80)
RSRZ outliers	91569	4547 (1.80-1.80)

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. 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	350	
1	B	350	

## 2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 5836 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 4-oxalomesaconate hydratase.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	329	Total	C	N	O	S	Se	0	0	0
			2607	1670	439	483	6	9			
1	B	326	Total	C	N	O	S	Se	0	0	0
			2582	1654	433	480	6	9			

There are 36 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1	MSE	MET	MODIFIED RESIDUE	UNP Q6N0R4
A	33	MSE	MET	MODIFIED RESIDUE	UNP Q6N0R4
A	58	MSE	MET	MODIFIED RESIDUE	UNP Q6N0R4
A	75	MSE	MET	MODIFIED RESIDUE	UNP Q6N0R4
A	112	MSE	MET	MODIFIED RESIDUE	UNP Q6N0R4
A	168	MSE	MET	MODIFIED RESIDUE	UNP Q6N0R4
A	176	MSE	MET	MODIFIED RESIDUE	UNP Q6N0R4
A	203	MSE	MET	MODIFIED RESIDUE	UNP Q6N0R4
A	242	MSE	MET	MODIFIED RESIDUE	UNP Q6N0R4
A	285	MSE	MET	MODIFIED RESIDUE	UNP Q6N0R4
A	343	LEU	-	CLONING ARTIFACT	UNP Q6N0R4
A	344	GLU	-	CLONING ARTIFACT	UNP Q6N0R4
A	345	HIS	-	EXPRESSION TAG	UNP Q6N0R4
A	346	HIS	-	EXPRESSION TAG	UNP Q6N0R4
A	347	HIS	-	EXPRESSION TAG	UNP Q6N0R4
A	348	HIS	-	EXPRESSION TAG	UNP Q6N0R4
A	349	HIS	-	EXPRESSION TAG	UNP Q6N0R4
A	350	HIS	-	EXPRESSION TAG	UNP Q6N0R4
B	1	MSE	MET	MODIFIED RESIDUE	UNP Q6N0R4
B	33	MSE	MET	MODIFIED RESIDUE	UNP Q6N0R4
B	58	MSE	MET	MODIFIED RESIDUE	UNP Q6N0R4
B	75	MSE	MET	MODIFIED RESIDUE	UNP Q6N0R4
B	112	MSE	MET	MODIFIED RESIDUE	UNP Q6N0R4
B	168	MSE	MET	MODIFIED RESIDUE	UNP Q6N0R4
B	176	MSE	MET	MODIFIED RESIDUE	UNP Q6N0R4

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Chain	Residue	Modelled	Actual	Comment	Reference
B	203	MSE	MET	MODIFIED RESIDUE	UNP Q6N0R4
B	242	MSE	MET	MODIFIED RESIDUE	UNP Q6N0R4
B	285	MSE	MET	MODIFIED RESIDUE	UNP Q6N0R4
B	343	LEU	-	CLONING ARTIFACT	UNP Q6N0R4
B	344	GLU	-	CLONING ARTIFACT	UNP Q6N0R4
B	345	HIS	-	EXPRESSION TAG	UNP Q6N0R4
B	346	HIS	-	EXPRESSION TAG	UNP Q6N0R4
B	347	HIS	-	EXPRESSION TAG	UNP Q6N0R4
B	348	HIS	-	EXPRESSION TAG	UNP Q6N0R4
B	349	HIS	-	EXPRESSION TAG	UNP Q6N0R4
B	350	HIS	-	EXPRESSION TAG	UNP Q6N0R4

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

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

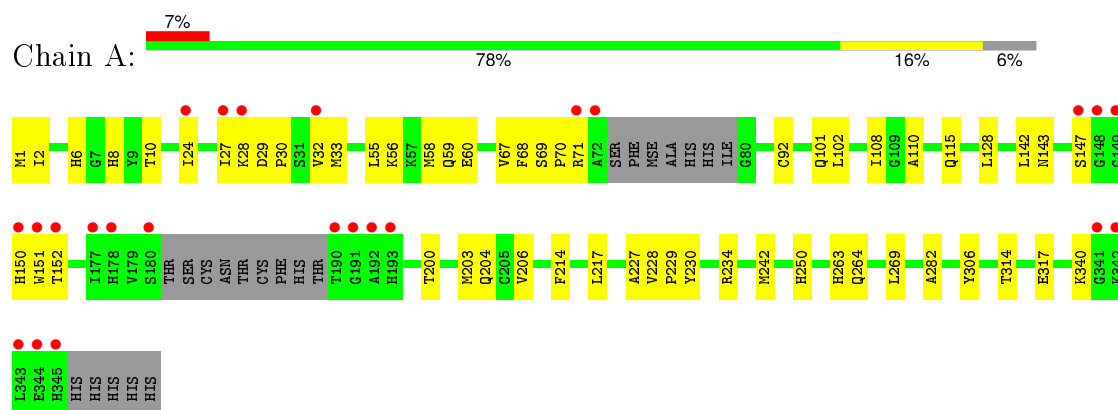
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	287	Total	O	0	0
			287	287		
3	B	358	Total	O	0	0
			358	358		

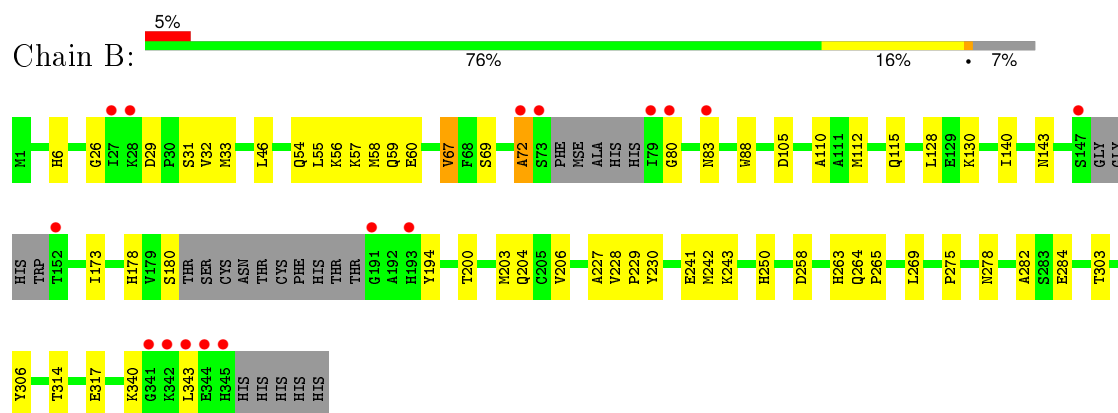
### 3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors 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: 4-oxalomesaconate hydratase



- Molecule 1: 4-oxalomesaconate hydratase



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	71.09Å 55.34Å 97.17Å 90.00° 90.26° 90.00°	Depositor
Resolution (Å)	22.79 – 1.80 28.55 – 1.80	Depositor EDS
% Data completeness (in resolution range)	89.5 (22.79-1.80) 98.6 (28.55-1.80)	Depositor EDS
$R_{merge}$	0.06	Depositor
$R_{sym}$	0.05	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	2.88 (at 1.79Å)	Xtriage
Refinement program	CNS 1.1	Depositor
R, $R_{free}$	0.181 , 0.208 0.194 , 0.219	Depositor DCC
$R_{free}$ test set	6815 reflections (9.81%)	DCC
Wilson B-factor (Å <sup>2</sup> )	16.8	Xtriage
Anisotropy	0.279	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.36 , 53.6	EDS
Estimated twinning fraction	0.019 for h,-k,-l	Xtriage
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.49$ , $\langle L^2 \rangle = 0.33$	Xtriage
Outliers	0 of 136508 reflections	Xtriage
$F_o, F_c$ correlation	0.95	EDS
Total number of atoms	5836	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	21.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.68% 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, 0.375 respectively for untwinned datasets, and 0.333, 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: ZN

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	0.29	0/2667	0.56	1/3609 (0.0%)
1	B	0.31	0/2638	0.59	1/3567 (0.0%)
All	All	0.30	0/5305	0.57	2/7176 (0.0%)

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	147	SER	CB-CA-C	5.77	121.06	110.10
1	B	67	VAL	N-CA-C	-5.25	96.82	111.00

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	2607	0	2565	35	0
1	B	2582	0	2550	39	0
2	A	1	0	0	0	0
2	B	1	0	0	0	0
3	A	287	0	0	4	0
3	B	358	0	0	8	0
All	All	5836	0	5115	72	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 7.

All (72) 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:227:ALA:HB2	1:B:227:ALA:HB2	1.51	0.92
1:B:115:GLN:HE22	1:B:143:ASN:H	1.22	0.88
1:A:115:GLN:HE22	1:A:143:ASN:H	1.24	0.82
1:A:10:THR:HA	1:A:71:ARG:HD3	1.68	0.75
1:A:69:SER:HB3	1:A:110:ALA:HB3	1.73	0.70
1:B:130:LYS:HE2	3:B:694:HOH:O	1.92	0.69
1:A:203:MSE:HE1	1:A:242:MSE:HE1	1.77	0.66
1:A:24:ILE:O	1:A:27:ILE:HG22	1.98	0.63
1:B:33:MSE:HG3	3:B:722:HOH:O	2.00	0.62
1:B:230:TYR:HA	1:B:269:LEU:HD21	1.82	0.61
1:A:228:VAL:HB	1:A:229:PRO:HD3	1.83	0.60
1:A:58:MSE:HE3	3:A:644:HOH:O	2.01	0.60
1:A:230:TYR:HA	1:A:269:LEU:HD21	1.85	0.59
1:A:101:GLN:HG2	3:A:563:HOH:O	2.03	0.58
1:A:150:HIS:HB3	1:A:152:THR:HG23	1.85	0.58
1:B:228:VAL:HB	1:B:229:PRO:HD3	1.86	0.58
1:A:67:VAL:HA	1:A:108:ILE:HG23	1.87	0.56
1:B:69:SER:HB3	1:B:110:ALA:HB3	1.88	0.55
1:A:102:LEU:HD13	3:A:642:HOH:O	2.08	0.54
1:A:214:PHE:HB3	1:A:217:LEU:HB2	1.89	0.54
1:A:2:ILE:N	1:A:2:ILE:HD12	2.24	0.53
1:A:200:THR:O	1:A:204:GLN:HG3	2.08	0.52
1:A:30:PRO:HA	1:A:33:MSE:HG3	1.92	0.52
1:A:29:ASP:O	1:A:32:VAL:HG22	2.10	0.52
1:B:88:TRP:CD1	1:B:112:MSE:HE1	2.45	0.52
1:B:80:GLY:HA2	3:B:654:HOH:O	2.11	0.51
1:B:72:ALA:HB1	1:B:180:SER:HA	1.92	0.51
1:B:241:GLU:HG3	3:B:463:HOH:O	2.12	0.50
1:B:29:ASP:OD1	1:B:31:SER:HB3	2.11	0.50
1:B:284:GLU:HG2	3:B:553:HOH:O	2.11	0.50
1:B:203:MSE:HE1	1:B:242:MSE:HE1	1.94	0.50
1:A:56:LYS:O	1:A:60:GLU:HG3	2.12	0.50
1:A:55:LEU:O	1:A:59:GLN:HG3	2.12	0.49
1:B:56:LYS:O	1:B:60:GLU:HG3	2.12	0.49
1:B:88:TRP:HD1	1:B:112:MSE:HE1	1.78	0.49
1:B:26:GLY:HA3	1:B:33:MSE:HG2	1.95	0.48
1:A:27:ILE:HG23	1:A:28:LYS:HG2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:314:THR:OG1	1:A:317:GLU:HG3	2.13	0.47
1:B:29:ASP:O	1:B:32:VAL:HG22	2.15	0.47
1:A:10:THR:HG22	1:A:71:ARG:HG2	1.97	0.47
1:B:140:ILE:HG23	1:B:173:ILE:HD12	1.96	0.47
1:B:72:ALA:HB2	1:B:178:HIS:HE1	1.80	0.46
1:A:67:VAL:HG12	1:A:110:ALA:HB2	1.97	0.46
1:B:275:PRO:HB2	1:B:278:ASN:HD22	1.81	0.45
1:A:206:VAL:O	1:A:250:HIS:HE1	1.99	0.45
1:A:10:THR:HA	1:A:71:ARG:CD	2.43	0.45
1:A:8:HIS:HA	1:A:69:SER:O	2.17	0.45
1:B:314:THR:OG1	1:B:317:GLU:HG3	2.16	0.45
1:A:264:GLN:OE1	1:A:306:TYR:HA	2.17	0.44
1:B:105:ASP:OD2	1:B:340:LYS:HE3	2.17	0.44
1:B:128:LEU:HD23	1:B:128:LEU:C	2.38	0.44
1:B:67:VAL:HG12	1:B:110:ALA:HB2	1.98	0.44
1:B:54:GLN:O	1:B:58:MSE:HG3	2.18	0.44
1:A:340:LYS:HG2	3:A:450:HOH:O	2.18	0.43
1:B:250:HIS:HD2	3:B:488:HOH:O	2.02	0.43
1:B:206:VAL:O	1:B:250:HIS:HE1	2.01	0.43
1:B:55:LEU:O	1:B:59:GLN:HG3	2.18	0.43
1:A:70:PRO:HB3	1:A:92:CYS:HB3	2.00	0.43
1:B:83:ASN:HB2	3:B:725:HOH:O	2.18	0.43
1:B:258:ASP:C	1:B:258:ASP:OD1	2.57	0.42
1:B:241:GLU:O	1:B:243:LYS:HE2	2.19	0.42
1:B:303:THR:HA	1:B:306:TYR:CD2	2.54	0.41
1:B:6:HIS:HB3	1:B:282:ALA:HB1	2.01	0.41
1:B:57:LYS:HE3	3:B:529:HOH:O	2.20	0.41
1:A:6:HIS:HB3	1:A:282:ALA:HB1	2.02	0.41
1:B:200:THR:O	1:B:204:GLN:HG3	2.20	0.41
1:B:26:GLY:HA2	1:B:29:ASP:O	2.21	0.41
1:B:264:GLN:HB3	1:B:265:PRO:HD3	2.03	0.41
1:A:150:HIS:O	1:A:151:TRP:HB2	2.21	0.40
1:A:234:ARG:HD3	1:B:194:TYR:OH	2.21	0.40
1:A:128:LEU:C	1:A:128:LEU:HD23	2.42	0.40
1:A:1:MSE:C	1:A:2:ILE:HD12	2.41	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	323/350 (92%)	311 (96%)	12 (4%)	0	100	100
1	B	318/350 (91%)	307 (96%)	10 (3%)	1 (0%)	46	29
All	All	641/700 (92%)	618 (96%)	22 (3%)	1 (0%)	52	35

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	72	ALA

### 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	283/293 (97%)	280 (99%)	3 (1%)	80	74
1	B	282/293 (96%)	279 (99%)	3 (1%)	80	74
All	All	565/586 (96%)	559 (99%)	6 (1%)	80	74

All (6) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	68	PHE
1	A	142	LEU
1	A	263	HIS
1	B	46	LEU
1	B	263	HIS

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Mol	Chain	Res	Type
1	B	343	LEU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (13) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	115	GLN
1	A	196	ASN
1	A	240	GLN
1	A	250	HIS
1	A	254	ASN
1	A	278	ASN
1	B	47	GLN
1	B	115	GLN
1	B	196	ASN
1	B	240	GLN
1	B	250	HIS
1	B	254	ASN
1	B	278	ASN

### 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 carbohydrates in this entry.

## 5.6 Ligand geometry ⓘ

Of 2 ligands modelled in this entry, 2 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

## 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 ⓘ

### 6.1 Protein, DNA and RNA chains ⓘ

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	320/350 (91%)	0.42	24 (7%) 17 13	10, 21, 40, 51	0
1	B	317/350 (90%)	0.02	16 (5%) 32 27	9, 15, 39, 50	0
All	All	637/700 (91%)	0.22	40 (6%) 23 19	9, 18, 40, 51	0

All (40) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	151	TRP	10.5
1	B	345	HIS	9.6
1	A	343	LEU	9.3
1	B	343	LEU	9.0
1	A	190	THR	8.8
1	B	79	ILE	8.0
1	A	150	HIS	7.6
1	A	345	HIS	6.8
1	B	344	GLU	6.5
1	B	152	THR	6.4
1	B	73	SER	5.5
1	A	27	ILE	5.2
1	A	72	ALA	5.2
1	A	152	THR	5.1
1	A	24	ILE	4.9
1	A	149	GLY	4.8
1	A	148	GLY	4.7
1	A	191	GLY	4.6
1	A	147	SER	4.5
1	A	192	ALA	4.3
1	A	344	GLU	3.9
1	B	80	GLY	3.9
1	A	71	ARG	3.8
1	A	341	GLY	3.4

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Mol	Chain	Res	Type	RSRZ
1	B	28	LYS	3.1
1	A	193	HIS	3.0
1	B	147	SER	2.9
1	B	193	HIS	2.8
1	B	27	ILE	2.8
1	A	342	LYS	2.5
1	A	178	HIS	2.4
1	B	72	ALA	2.4
1	A	32	VAL	2.4
1	B	342	LYS	2.3
1	B	191	GLY	2.3
1	A	28	LYS	2.3
1	A	180	SER	2.2
1	B	83	ASN	2.2
1	B	341	GLY	2.1
1	A	177	ILE	2.0

## 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 carbohydrates 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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. 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	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
2	ZN	B	401	1/1	0.99	0.03	-	16,16,16,16	0
2	ZN	A	401	1/1	0.99	0.02	-	20,20,20,20	0

## 6.5 Other polymers [i](#)

There are no such residues in this entry.