



# Full wwPDB X-ray Structure Validation Report ⓘ

Feb 1, 2016 – 01:55 AM GMT

PDB ID : 2EV1  
Title : Structure of Rv1264N, the regulatory domain of the mycobacterial adenylyl cyclase Rv1264, at pH 6.0  
Authors : Findeisen, F.; Tews, I.; Sinning, I.  
Deposited on : 2005-10-30  
Resolution : 1.60 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

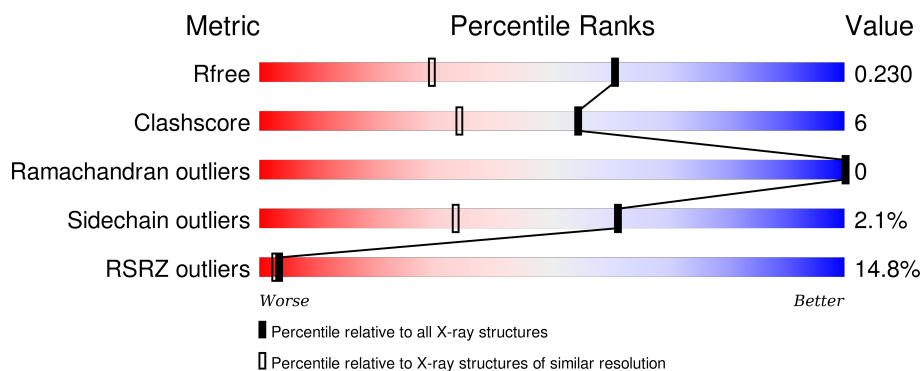
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

## *X-RAY DIFFRACTION*

The reported resolution of this entry is 1.60 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	2475 (1.60-1.60)
Clashscore	102246	2732 (1.60-1.60)
Ramachandran outliers	100387	2654 (1.60-1.60)
Sidechain outliers	100360	2653 (1.60-1.60)
RSRZ outliers	91569	2479 (1.60-1.60)

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	222	
1	B	222	

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
3	1PE	A	1104	-	-	-	X
3	1PE	B	1103	-	-	-	X

## 2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 3253 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 Hypothetical protein Rv1264/MT1302.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	185	Total	C	N	O	S	0	7	0
			1432	891	261	270	10			
1	B	181	Total	C	N	O	S	0	8	0
			1405	880	252	264	9			

There are 30 discrepancies between the modelled and reference sequences:

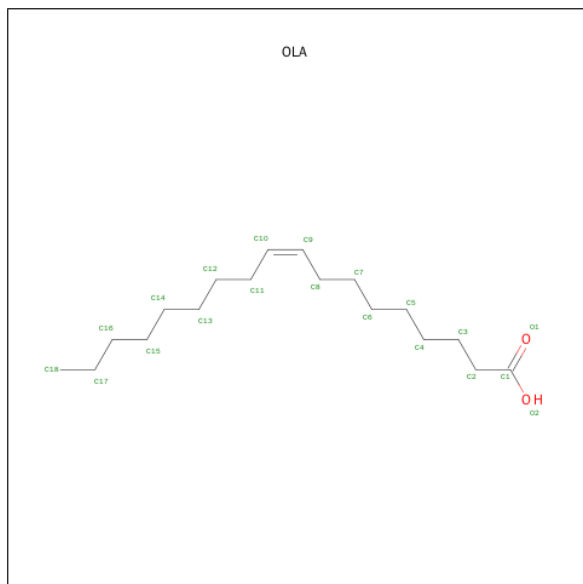
Chain	Residue	Modelled	Actual	Comment	Reference
A	-11	MET	-	EXPRESSION TAG	UNP Q11055
A	-10	ARG	-	EXPRESSION TAG	UNP Q11055
A	-9	GLY	-	EXPRESSION TAG	UNP Q11055
A	-8	SER	-	EXPRESSION TAG	UNP Q11055
A	-7	HIS	-	EXPRESSION TAG	UNP Q11055
A	-6	HIS	-	EXPRESSION TAG	UNP Q11055
A	-5	HIS	-	EXPRESSION TAG	UNP Q11055
A	-4	HIS	-	EXPRESSION TAG	UNP Q11055
A	-3	HIS	-	EXPRESSION TAG	UNP Q11055
A	-2	HIS	-	EXPRESSION TAG	UNP Q11055
A	-1	GLY	-	EXPRESSION TAG	UNP Q11055
A	0	SER	-	EXPRESSION TAG	UNP Q11055
A	208	SER	-	EXPRESSION TAG	UNP Q11055
A	209	SER	-	EXPRESSION TAG	UNP Q11055
A	210	PRO	-	EXPRESSION TAG	UNP Q11055
B	-11	MET	-	EXPRESSION TAG	UNP Q11055
B	-10	ARG	-	EXPRESSION TAG	UNP Q11055
B	-9	GLY	-	EXPRESSION TAG	UNP Q11055
B	-8	SER	-	EXPRESSION TAG	UNP Q11055
B	-7	HIS	-	EXPRESSION TAG	UNP Q11055
B	-6	HIS	-	EXPRESSION TAG	UNP Q11055
B	-5	HIS	-	EXPRESSION TAG	UNP Q11055
B	-4	HIS	-	EXPRESSION TAG	UNP Q11055
B	-3	HIS	-	EXPRESSION TAG	UNP Q11055
B	-2	HIS	-	EXPRESSION TAG	UNP Q11055

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Chain	Residue	Modelled	Actual	Comment	Reference
B	-1	GLY	-	EXPRESSION TAG	UNP Q11055
B	0	SER	-	EXPRESSION TAG	UNP Q11055
B	208	SER	-	EXPRESSION TAG	UNP Q11055
B	209	SER	-	EXPRESSION TAG	UNP Q11055
B	210	PRO	-	EXPRESSION TAG	UNP Q11055

- Molecule 2 is OLEIC ACID (three-letter code: OLA) (formula:  $C_{18}H_{34}O_2$ ).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total	C	O	0	0
			20	18	2		
2	B	1	Total	C	O	0	0
			20	18	2		

- Molecule 3 is PENTAETHYLENE GLYCOL (three-letter code: 1PE) (formula:  $C_{10}H_{22}O_6$ ).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	C	O	0	0
			13	8	5		
3	B	1	Total	C	O	0	0
			10	6	4		

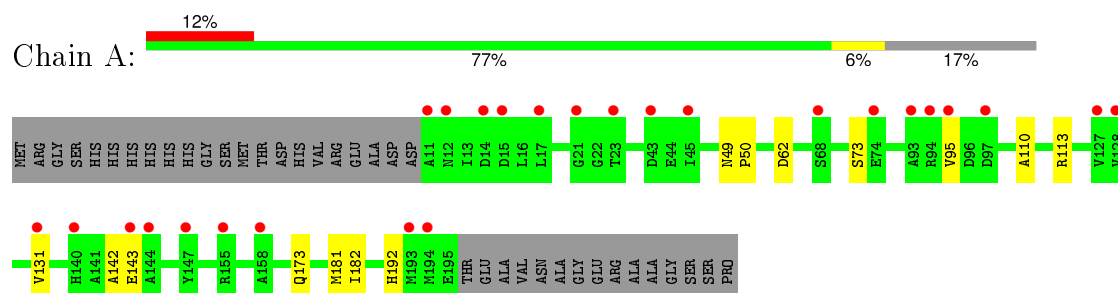
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	186	Total	O	0	0
			186	186		
4	B	167	Total	O	0	0
			167	167		

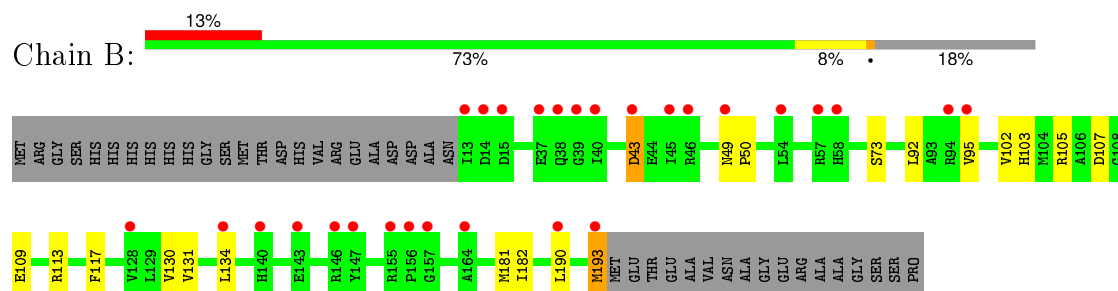
### 3 Residue-property plots [i](#)

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: Hypothetical protein Rv1264/MT1302



#### • Molecule 1: Hypothetical protein Rv1264/MT1302



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	86.60Å 93.53Å 54.34Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	12.00 – 1.60 11.99 – 1.60	Depositor EDS
% Data completeness (in resolution range)	91.7 (12.00-1.60) 91.7 (11.99-1.60)	Depositor EDS
$R_{merge}$	0.07	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.89 (at 1.60Å)	Xtriage
Refinement program	REFMAC 5.2.0005	Depositor
R, $R_{free}$	0.188 , 0.216 0.200 , 0.230	Depositor DCC
$R_{free}$ test set	2706 reflections (5.29%)	DCC
Wilson B-factor (Å <sup>2</sup> )	23.0	Xtriage
Anisotropy	0.047	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.39 , 49.6	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.50$ , $\langle L^2 \rangle = 0.33$	Xtriage
Outliers	1 of 58799 reflections (0.002%)	Xtriage
$F_o, F_c$ correlation	0.94	EDS
Total number of atoms	3253	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	33.0	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 34.65 % 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 6.5983e-04. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

<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: OLA, 1PE

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	0.68	0/1485	0.73	1/2011 (0.0%)
1	B	0.64	0/1456	0.73	1/1974 (0.1%)
All	All	0.66	0/2941	0.73	2/3985 (0.1%)

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	62	ASP	CB-CG-OD1	5.63	123.37	118.30
1	B	107	ASP	CB-CG-OD1	5.03	122.82	118.30

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	1432	0	1448	21	0
1	B	1405	0	1432	30	0
2	A	20	0	33	5	0
2	B	20	0	33	8	0
3	A	13	0	17	0	0
3	B	10	0	13	0	0
4	A	186	0	0	3	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	B	167	0	0	0	0
All	All	3253	0	2976	38	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 6.

All (38) 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:131:VAL:HG22	2:B:1001:OLA:H183	1.36	1.07
1:B:181[B]:MET:HE3	2:B:1001:OLA:H181	1.66	0.76
1:A:181[B]:MET:HE1	2:A:1002:OLA:H183	1.75	0.68
1:A:113:ARG:HB2	1:B:181[B]:MET:HE1	1.77	0.66
1:A:181[B]:MET:CE	2:A:1002:OLA:H183	2.30	0.62
1:B:181[B]:MET:HE2	2:B:1001:OLA:H172	1.83	0.61
1:B:190:LEU:O	1:B:193:MET:HG2	2.00	0.61
1:B:95:VAL:HB	1:B:102:VAL:HG21	1.83	0.60
2:A:1002:OLA:H172	1:B:131:VAL:HG22	1.85	0.58
1:B:105:ARG:NH1	1:B:109:GLU:OE2	2.36	0.58
1:A:142:ALA:O	1:B:193:MET:CE	2.52	0.57
1:A:181[B]:MET:HE2	1:B:113:ARG:HB3	1.86	0.57
1:A:113:ARG:HB2	1:B:181[B]:MET:CE	2.35	0.56
1:B:95:VAL:O	1:B:95:VAL:HG13	2.05	0.56
1:B:181[B]:MET:CE	2:B:1001:OLA:H181	2.36	0.55
1:A:131:VAL:HG22	2:B:1001:OLA:C18	2.25	0.55
1:A:192:HIS:CD2	1:B:92:LEU:HD13	2.42	0.54
1:A:181[B]:MET:CE	1:B:113:ARG:HB3	2.37	0.54
1:B:181[B]:MET:HE2	2:B:1001:OLA:C17	2.38	0.54
1:B:181[B]:MET:CE	2:B:1001:OLA:C17	2.88	0.52
1:A:110:ALA:O	1:B:181[B]:MET:HE1	2.10	0.51
1:B:43:ASP:OD2	1:B:43:ASP:N	2.45	0.50
1:A:181[B]:MET:CE	1:B:113:ARG:CB	2.90	0.49
1:B:95:VAL:HG11	1:B:103:HIS:CE1	2.47	0.49
1:B:181[B]:MET:HE3	2:B:1001:OLA:C18	2.39	0.48
1:A:181[B]:MET:CE	1:B:117:PHE:HE1	2.26	0.48
1:A:142:ALA:O	1:B:193:MET:HE2	2.13	0.47
1:A:173[B]:GLN:NE2	4:A:1214:HOH:O	2.49	0.46
2:A:1002:OLA:H131	1:B:130:VAL:HG11	1.98	0.46
1:A:182:ILE:CD1	1:B:134:LEU:HD22	2.48	0.44
1:A:49:ASN:HA	1:A:50:PRO:HA	1.82	0.44
1:A:95:VAL:N	4:A:1282:HOH:O	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:49:ASN:HA	1:B:50:PRO:HA	1.94	0.41
1:A:142:ALA:HB1	1:B:193:MET:HE3	2.03	0.41
1:A:181[B]:MET:HE3	1:B:117:PHE:CE1	2.55	0.41
2:A:1002:OLA:C1	4:A:1281:HOH:O	2.69	0.40
1:B:95:VAL:CB	1:B:102:VAL:HG21	2.50	0.40
1:A:181[B]:MET:HE1	1:B:113:ARG:CB	2.51	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	190/222 (86%)	188 (99%)	2 (1%)	0	100	100
1	B	187/222 (84%)	182 (97%)	5 (3%)	0	100	100
All	All	377/444 (85%)	370 (98%)	7 (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	153/175 (87%)	150 (98%)	3 (2%)	63	36
1	B	151/175 (86%)	146 (97%)	5 (3%)	45	17

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
All	All	304/350 (87%)	296 (97%)	8 (3%)	61 25

All (8) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	73[A]	SER
1	A	73[B]	SER
1	A	143	GLU
1	B	43	ASP
1	B	73[A]	SER
1	B	73[B]	SER
1	B	182	ILE
1	B	193	MET

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (3) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	103	HIS
1	B	38	GLN
1	B	168	GLN

### 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 carbohydrates in this entry.

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

4 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
2	OLA	A	1002	-	16,19,19	0.67	1 (6%)	16,19,19	0.84	0
3	1PE	A	1104	-	12,12,15	0.25	0	11,11,14	0.73	0
2	OLA	B	1001	-	16,19,19	0.68	1 (6%)	16,19,19	0.71	0
3	1PE	B	1103	-	9,9,15	0.42	0	8,8,14	0.64	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
2	OLA	A	1002	-	-	0/15/17/17	0/0/0/0
3	1PE	A	1104	-	-	0/10/10/13	0/0/0/0
2	OLA	B	1001	-	-	0/15/17/17	0/0/0/0
3	1PE	B	1103	-	-	0/7/7/13	0/0/0/0

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	1002	OLA	C10-C9	2.57	1.46	1.31
2	B	1001	OLA	C10-C9	2.60	1.46	1.31

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

2 monomers are involved in 13 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	1002	OLA	5	0
2	B	1001	OLA	8	0

## 5.7 Other polymers

There are no such residues in this entry.

## 5.8 Polymer linkage issues

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	185/222 (83%)	1.08	26 (14%) 4 3	25, 31, 44, 55	0
1	B	181/222 (81%)	1.18	28 (15%) 3 2	24, 31, 40, 55	0
All	All	366/444 (82%)	1.13	54 (14%) 3 3	24, 31, 43, 55	0

All (54) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	95	VAL	11.8
1	A	11	ALA	11.7
1	A	94	ARG	7.1
1	B	94	ARG	7.0
1	A	12	ASN	6.5
1	A	147	TYR	5.8
1	B	147	TYR	4.7
1	B	193	MET	4.2
1	B	156	PRO	4.1
1	B	49	ASN	4.1
1	B	15	ASP	3.8
1	B	14	ASP	3.7
1	B	45	ILE	3.7
1	B	38	GLN	3.5
1	B	37	GLU	3.5
1	B	143	GLU	3.5
1	A	194	MET	3.4
1	A	15	ASP	3.4
1	A	93	ALA	3.4
1	B	54	LEU	3.3
1	A	193	MET	3.3
1	A	95	VAL	3.1
1	A	97	ASP	2.9
1	B	13	ILE	2.9

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Mol	Chain	Res	Type	RSRZ
1	B	157	GLY	2.8
1	A	23	THR	2.8
1	A	45	ILE	2.6
1	A	155	ARG	2.5
1	B	155	ARG	2.5
1	B	58	HIS	2.5
1	A	143	GLU	2.5
1	A	43	ASP	2.5
1	B	128	VAL	2.5
1	B	57	ARG	2.5
1	B	39	GLY	2.5
1	A	17	LEU	2.4
1	A	21	GLY	2.4
1	B	40	ILE	2.3
1	A	128	VAL	2.3
1	A	74	GLU	2.3
1	A	14	ASP	2.3
1	B	190	LEU	2.2
1	B	146	ARG	2.2
1	A	127	VAL	2.2
1	B	43	ASP	2.2
1	A	144	ALA	2.2
1	B	46	ARG	2.2
1	A	158	ALA	2.2
1	A	68	SER	2.1
1	B	164	ALA	2.1
1	A	140	HIS	2.1
1	B	134	LEU	2.1
1	A	131	VAL	2.0
1	B	140	HIS	2.0

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

There are no non-standard protein/DNA/RNA residues in this entry.

## 6.3 Carbohydrates ⓘ

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(Å <sup>2</sup> )	Q<0.9
3	1PE	A	1104	13/16	0.74	0.21	3.17	34,36,41,42	0
3	1PE	B	1103	10/16	0.90	0.21	2.37	27,32,35,35	0
2	OLA	B	1001	20/20	0.65	0.21	1.32	43,52,68,69	0
2	OLA	A	1002	20/20	0.83	0.18	0.92	36,39,49,51	0

## 6.5 Other polymers [i](#)

There are no such residues in this entry.