



# Full wwPDB X-ray Structure Validation Report ⓘ

Mar 13, 2018 – 12:05 pm GMT

PDB ID : 3WMH  
Title : Human PPAR gamma ligand binding domain in complex with a gamma selective synthetic partial agonist MEKT75  
Authors : Oyama, T.; Ohashi, M.; Miyachi, H.; Kusunoki, M.  
Deposited on : 2013-11-19  
Resolution : 2.10 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

<https://www.wwpdb.org/validation/2017/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 : 1.7.3 (157068), CSD as539be (2018)  
Xtriage (Phenix) : 1.13  
EDS : trunk31020  
Percentile statistics : 20171227.v01 (using entries in the PDB archive December 27th 2017)  
Refmac : 5.8.0158  
CCP4 : 7.0 (Gargrove)  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : trunk31020

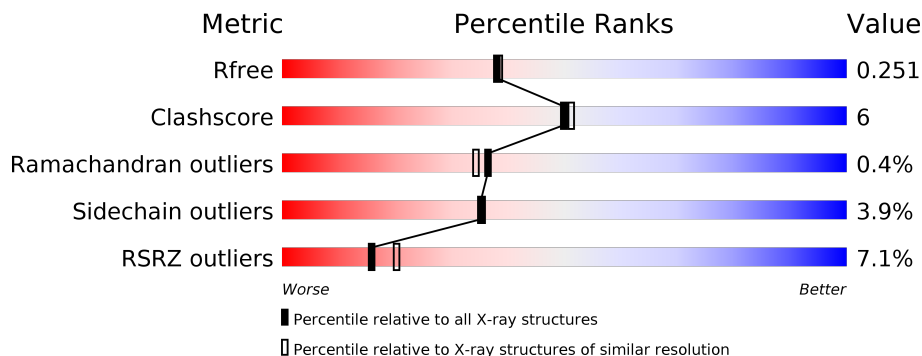
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 2.10 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))
$R_{free}$	111664	4608 (2.10-2.10)
Clashscore	122126	5109 (2.10-2.10)
Ramachandran outliers	120053	5059 (2.10-2.10)
Sidechain outliers	120020	5060 (2.10-2.10)
RSRZ outliers	108989	4497 (2.10-2.10)

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	286	<p>2% 78% 13% • 8%</p>
1	B	286	<p>10% 76% 11% • 10%</p>

## 2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 4313 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.

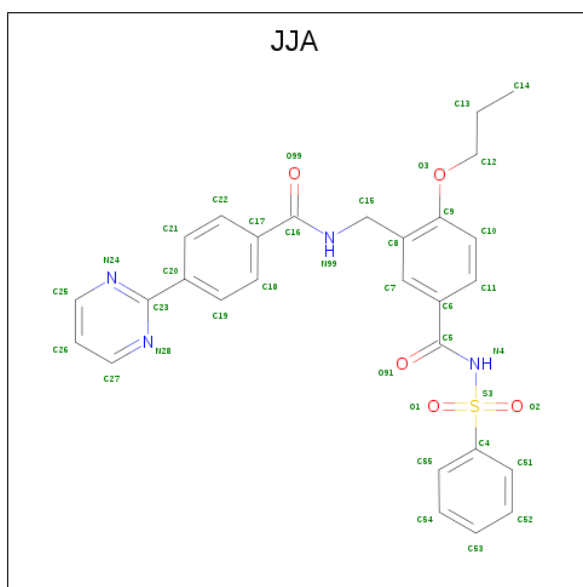
- Molecule 1 is a protein called Peroxisome proliferator-activated receptor gamma.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	264	2114	1364	346	394	10	0	0	0
1	B	256	2051	1327	336	378	10	0	0	0

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	191	GLY	-	EXPRESSION TAG	UNP P37231
A	192	SER	-	EXPRESSION TAG	UNP P37231
A	193	HIS	-	EXPRESSION TAG	UNP P37231
A	194	MET	-	EXPRESSION TAG	UNP P37231
B	191	GLY	-	EXPRESSION TAG	UNP P37231
B	192	SER	-	EXPRESSION TAG	UNP P37231
B	193	HIS	-	EXPRESSION TAG	UNP P37231
B	194	MET	-	EXPRESSION TAG	UNP P37231

- Molecule 2 is N-(phenylsulfonyl)-4-propoxy-3-({[4-(pyrimidin-2-yl)benzoyl]amino}methyl)benzamide (three-letter code: JJA) (formula: C<sub>28</sub>H<sub>26</sub>N<sub>4</sub>O<sub>5</sub>S).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	N	O	S		
2	A	1	38	28	4	5	1	0	0
2	B	1	38	28	4	5	1	0	0

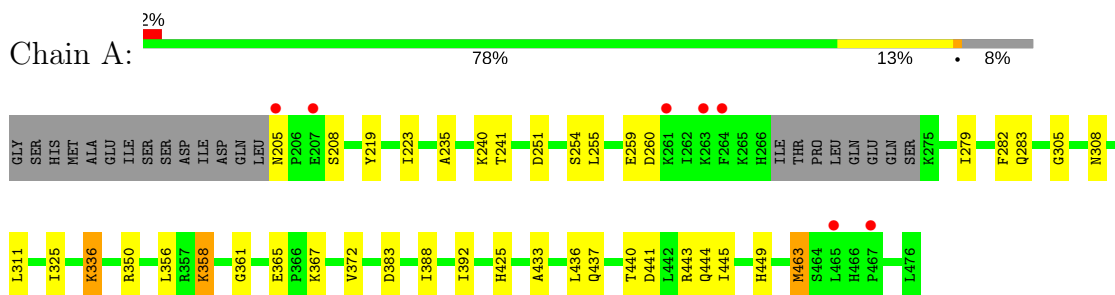
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	O		
3	A	37	37	37	0	0
3	B	35	35	35	0	0

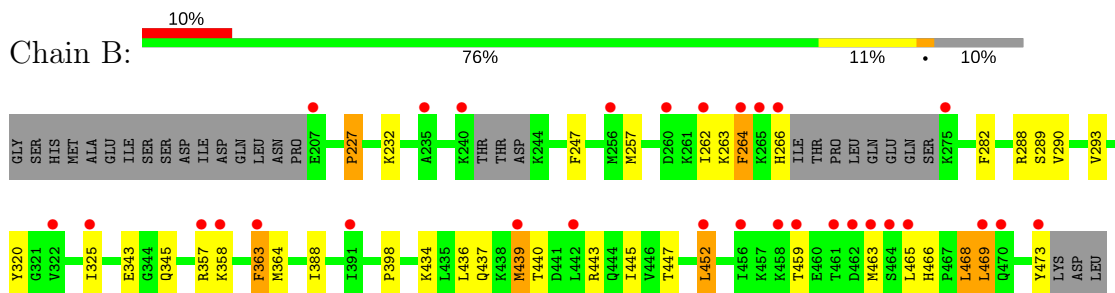
### 3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of 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: Peroxisome proliferator-activated receptor gamma



- Molecule 1: Peroxisome proliferator-activated receptor gamma



## 4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	93.25Å 61.11Å 119.28Å 90.00° 103.11° 90.00°	Depositor
Resolution (Å)	44.45 – 2.10 44.45 – 2.10	Depositor EDS
% Data completeness (in resolution range)	98.6 (44.45-2.10) 98.6 (44.45-2.10)	Depositor EDS
$R_{merge}$	0.05	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	2.68 (at 2.10Å)	Xtrriage
Refinement program	PHENIX (phenix.refine: 1.7.3_928)	Depositor
R, $R_{free}$	0.215 , 0.258 0.209 , 0.251	Depositor DCC
$R_{free}$ test set	1903 reflections (5.03%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	42.7	Xtrriage
Anisotropy	0.467	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.34 , 44.9	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.50$ , $\langle L^2 \rangle = 0.33$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
$F_o, F_c$ correlation	0.96	EDS
Total number of atoms	4313	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	54.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.86% 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: JJA

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	0.40	0/2150	0.52	0/2895
1	B	0.40	0/2085	0.51	0/2805
All	All	0.40	0/4235	0.52	0/5700

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	2114	0	2170	23	0
1	B	2051	0	2110	33	0
2	A	38	0	26	1	0
2	B	38	0	26	8	0
3	A	37	0	0	0	0
3	B	35	0	0	0	0
All	All	4313	0	4332	54	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 (54) 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:B:466:HIS:HD2	1:B:468:LEU:H	1.33	0.76
1:A:240:LYS:HG3	1:A:241:THR:HG23	1.70	0.72
1:B:282:PHE:HD1	2:B:901:JJA:H1	1.55	0.71
1:A:358:LYS:HE2	1:A:358:LYS:H	1.57	0.69
1:B:466:HIS:CD2	1:B:468:LEU:H	2.15	0.61
1:B:262:ILE:HD13	1:B:345:GLN:HB3	1.83	0.60
1:B:290:VAL:HG21	1:B:473:TYR:CD1	2.37	0.59
1:A:383:ASP:OD2	1:A:425:HIS:HE1	1.87	0.58
1:B:325:ILE:HG23	1:B:388:ILE:HD12	1.84	0.58
1:B:288:ARG:HG3	2:B:901:JJA:H10	1.86	0.57
1:B:465:LEU:HD22	1:B:469:LEU:HD13	1.87	0.56
1:A:336:LYS:H	1:A:336:LYS:HD2	1.71	0.55
1:A:305:GLY:HA2	1:A:308:ASN:HD22	1.70	0.55
1:B:247:PHE:HZ	1:B:257:MET:HE3	1.73	0.54
1:B:434:LYS:HA	1:B:437:GLN:HE21	1.73	0.53
1:B:443:ARG:O	1:B:447:THR:HG23	2.10	0.52
1:B:282:PHE:CD1	2:B:901:JJA:H1	2.41	0.52
1:B:364:MET:HG2	2:B:901:JJA:C55	2.40	0.51
1:B:290:VAL:HG21	1:B:473:TYR:CE1	2.45	0.51
1:A:441:ASP:O	1:A:445:ILE:HD13	2.11	0.50
1:A:235:ALA:HA	1:A:240:LYS:HE2	1.93	0.50
1:B:227:PRO:O	1:B:232:LYS:NZ	2.41	0.49
1:A:282:PHE:CD1	2:A:901:JJA:H1	2.47	0.49
1:B:325:ILE:HG12	1:B:388:ILE:HG23	1.96	0.48
1:B:436:LEU:O	1:B:439:MET:HB2	2.14	0.47
1:A:325:ILE:HD11	1:A:392:ILE:HG13	1.97	0.46
1:A:440:THR:HG21	1:B:443:ARG:HD2	1.98	0.46
1:B:320:TYR:CZ	1:B:398:PRO:HG2	2.50	0.46
1:B:364:MET:HG2	2:B:901:JJA:H5	1.96	0.46
1:A:255:LEU:O	1:A:259:GLU:HG2	2.15	0.45
1:B:247:PHE:CZ	1:B:257:MET:HE3	2.51	0.45
1:B:363:PHE:CE2	1:B:452:LEU:HD22	2.51	0.45
1:B:363:PHE:CD1	1:B:452:LEU:HD13	2.51	0.45
1:A:350:ARG:NH2	1:A:365:GLU:OE1	2.39	0.45
1:B:266:HIS:CB	2:B:901:JJA:H22	2.47	0.45
1:A:325:ILE:HD13	1:A:388:ILE:HG23	1.99	0.45
1:B:466:HIS:HB3	1:B:469:LEU:HB2	1.98	0.45
1:B:264:PHE:HB3	1:B:266:HIS:HD2	1.82	0.44
1:A:443:ARG:HG3	1:B:440:THR:HG23	1.99	0.44
1:A:367:LYS:NZ	1:A:449:HIS:HD2	2.16	0.43
1:A:219:TYR:O	1:A:223:ILE:HG12	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:901:JJA:H11	2:B:901:JJA:H8	1.42	0.43
1:A:463:MET:HE2	1:A:463:MET:HB3	1.89	0.43
1:A:251:ASP:OD1	1:A:254:SER:HB2	2.19	0.43
1:A:336:LYS:HG3	1:A:372:VAL:HG11	2.00	0.43
1:A:356:LEU:HB2	1:A:361:GLY:HA2	2.00	0.42
1:A:436:LEU:HD12	1:B:436:LEU:HD12	2.01	0.42
1:B:289:SER:O	1:B:293:VAL:HG23	2.19	0.42
1:A:279:ILE:O	1:A:283:GLN:HG2	2.20	0.41
1:A:433:ALA:O	1:A:437:GLN:HG3	2.20	0.41
1:B:264:PHE:HB3	1:B:266:HIS:CD2	2.55	0.41
1:B:282:PHE:HD1	2:B:901:JJA:C51	2.29	0.41
1:B:282:PHE:CE2	1:B:463:MET:HE1	2.56	0.41
1:B:445:ILE:HD13	1:B:445:ILE:HA	1.74	0.41

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	260/286 (91%)	256 (98%)	4 (2%)	0	100	100
1	B	250/286 (87%)	242 (97%)	6 (2%)	2 (1%)	21	16
All	All	510/572 (89%)	498 (98%)	10 (2%)	2 (0%)	36	34

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	263	LYS
1	B	227	PRO

### 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	236/257 (92%)	228 (97%)	8 (3%)	40	41
1	B	228/257 (89%)	218 (96%)	10 (4%)	31	30
All	All	464/514 (90%)	446 (96%)	18 (4%)	35	35

All (18) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	205	ASN
1	A	208	SER
1	A	260	ASP
1	A	311	LEU
1	A	336	LYS
1	A	358	LYS
1	A	444	GLN
1	A	463	MET
1	B	264	PHE
1	B	343	GLU
1	B	357	ARG
1	B	358	LYS
1	B	363	PHE
1	B	439	MET
1	B	452	LEU
1	B	459	THR
1	B	468	LEU
1	B	469	LEU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (16) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	205	ASN
1	A	283	GLN
1	A	308	ASN
1	A	375	ASN

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Mol	Chain	Res	Type
1	A	410	GLN
1	A	425	HIS
1	A	449	HIS
1	B	217	HIS
1	B	266	HIS
1	B	283	GLN
1	B	308	ASN
1	B	424	ASN
1	B	430	GLN
1	B	437	GLN
1	B	466	HIS
1	B	470	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](#)

2 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	JJA	A	901	-	41,41,41	1.41	4 (9%)	56,56,56	1.79	12 (21%)
2	JJA	B	901	-	41,41,41	1.44	4 (9%)	56,56,56	2.11	16 (28%)

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	JJA	A	901	-	-	0/32/32/32	0/4/4/4
2	JJA	B	901	-	-	0/32/32/32	0/4/4/4

All (8) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	901	JJA	C5-N4	2.81	1.42	1.39
2	B	901	JJA	O1-S3	3.72	1.47	1.43
2	A	901	JJA	O1-S3	3.97	1.47	1.43
2	B	901	JJA	O2-S3	4.17	1.48	1.43
2	B	901	JJA	C16-N99	4.25	1.43	1.33
2	B	901	JJA	C5-N4	4.31	1.44	1.39
2	A	901	JJA	O2-S3	4.53	1.48	1.43
2	A	901	JJA	C16-N99	4.59	1.44	1.33

All (28) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	901	JJA	O2-S3-O1	-7.34	110.33	119.56
2	B	901	JJA	O2-S3-O1	-7.27	110.42	119.56
2	B	901	JJA	O3-C9-C10	-2.78	117.98	124.00
2	B	901	JJA	C51-C4-C55	-2.75	116.50	120.43
2	B	901	JJA	N28-C23-N24	-2.72	119.33	125.47
2	A	901	JJA	C26-C25-N24	-2.47	119.35	123.43
2	A	901	JJA	N28-C23-N24	-2.28	120.33	125.47
2	A	901	JJA	C26-C27-N28	-2.22	119.78	123.43
2	A	901	JJA	O3-C9-C10	-2.01	119.65	124.00
2	B	901	JJA	C51-C4-S3	2.01	121.99	119.77
2	A	901	JJA	O3-C12-C13	2.13	119.95	109.86
2	B	901	JJA	C20-C23-N28	2.27	119.91	117.40
2	A	901	JJA	O2-S3-C4	2.40	110.89	107.95
2	B	901	JJA	C4-S3-N4	2.47	109.29	105.89
2	A	901	JJA	C8-C15-N99	2.48	118.47	113.05
2	B	901	JJA	C6-C5-N4	2.63	119.26	116.03
2	B	901	JJA	O3-C12-C13	2.76	122.95	109.86
2	B	901	JJA	C54-C55-C4	2.85	121.93	118.95
2	A	901	JJA	C20-C23-N28	2.88	120.59	117.40
2	B	901	JJA	O2-S3-C4	3.03	111.65	107.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	901	JJA	C20-C23-N24	3.04	120.76	117.40
2	B	901	JJA	C52-C51-C4	3.06	122.15	118.95
2	A	901	JJA	C27-N28-C23	3.74	120.27	116.12
2	A	901	JJA	O3-C9-C8	3.80	120.64	115.66
2	B	901	JJA	C25-N24-C23	4.00	120.56	116.12
2	A	901	JJA	C25-N24-C23	4.25	120.84	116.12
2	B	901	JJA	C27-N28-C23	4.44	121.05	116.12
2	B	901	JJA	O3-C9-C8	6.20	123.78	115.66

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

2 monomers are involved in 9 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	901	JJA	1	0
2	B	901	JJA	8	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

### 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	264/286 (92%)	0.17	7 (2%) 54 61	33, 50, 74, 83	0
1	B	256/286 (89%)	0.77	30 (11%) 4 6	34, 51, 87, 108	0
All	All	520/572 (90%)	0.47	37 (7%) 16 20	33, 51, 81, 108	0

All (37) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	464	SER	7.3
1	B	264	PHE	6.9
1	B	465	LEU	5.9
1	B	469	LEU	5.9
1	B	262	ILE	5.5
1	B	463	MET	5.3
1	B	462	ASP	4.9
1	B	473	TYR	4.6
1	B	458	LYS	4.5
1	A	264	PHE	4.4
1	B	207	GLU	3.6
1	B	240	LYS	3.6
1	B	459	THR	3.6
1	B	470	GLN	3.4
1	B	456	ILE	3.4
1	B	363	PHE	3.3
1	B	358	LYS	3.3
1	B	260	ASP	3.2
1	B	275	LYS	2.9
1	A	261	LYS	2.9
1	B	452	LEU	2.8
1	B	391	ILE	2.7
1	B	266	HIS	2.7
1	A	205	ASN	2.7

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Mol	Chain	Res	Type	RSRZ
1	B	461	THR	2.7
1	B	256	MET	2.6
1	B	442	LEU	2.4
1	A	465	LEU	2.2
1	B	265	LYS	2.2
1	B	439	MET	2.1
1	B	357	ARG	2.1
1	B	322	VAL	2.1
1	A	207	GLU	2.1
1	B	235	ALA	2.1
1	A	467	PRO	2.0
1	B	325	ILE	2.0
1	A	263	LYS	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. 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(Å <sup>2</sup> )	Q<0.9
2	JJA	B	901	38/38	0.68	0.27	54,64,73,79	0
2	JJA	A	901	38/38	0.94	0.17	47,53,63,67	0

## 6.5 Other polymers [i](#)

There are no such residues in this entry.