



Full wwPDB X-ray Structure Validation Report i

Feb 13, 2017 – 03:51 pm GMT

PDB ID : 1V0O
Title : STRUCTURE OF P. FALCIPARUM PFPK5-INDIRUBIN-5-SULPHONATE LIGAND COMPLEX
Authors : Holton, S.; Merckx, A.; Burgess, D.; Doerig, C.; Noble, M.; Endicott, J.
Deposited on : 2004-03-31
Resolution : 1.90 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

A user guide is available at

<http://wwpdb.org/validation/2016/XrayValidationReportHelp>
with specific help available everywhere you see the i symbol.

The following versions of software and data (see [references](#) i) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.7.2 (RC1), CSD as538be (2017)
Xtriage (Phenix) : 1.9-1692
EDS : trunk28620
Percentile statistics : 20161228.v01 (using entries in the PDB archive December 28th 2016)
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) : recalc28949

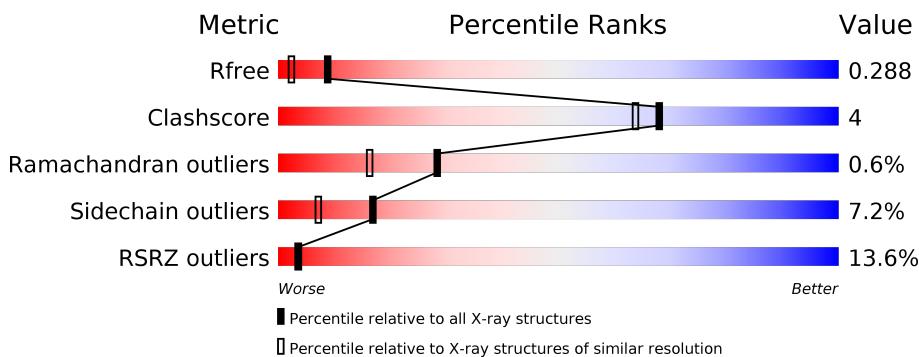
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

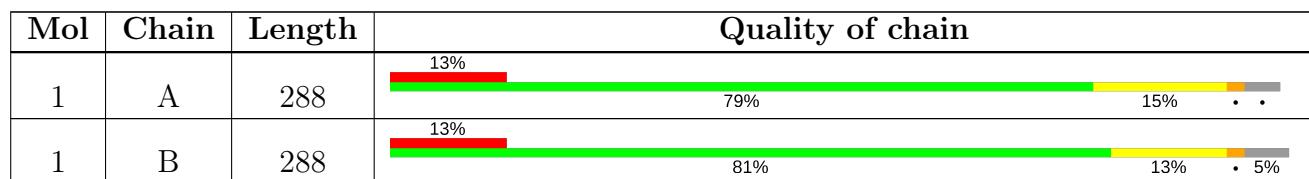
The reported resolution of this entry is 1.90 Å.

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}	100719	5047 (1.90-1.90)
Clashscore	112137	5731 (1.90-1.90)
Ramachandran outliers	110173	5669 (1.90-1.90)
Sidechain outliers	110143	5670 (1.90-1.90)
RSRZ outliers	101464	5100 (1.90-1.90)

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 ≥ 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.



2 Entry composition [\(i\)](#)

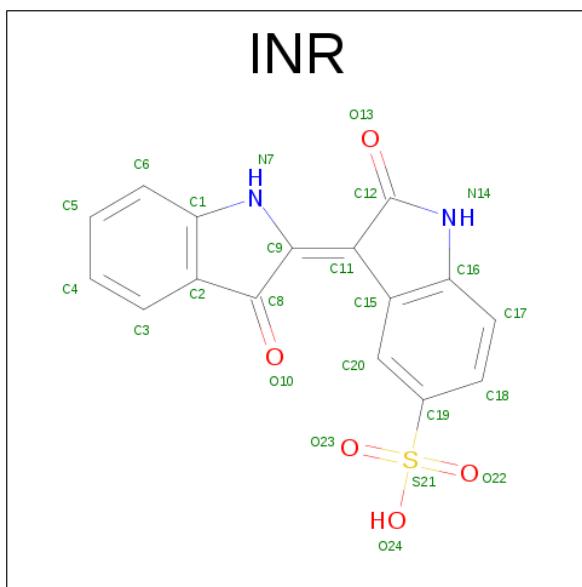
There are 3 unique types of molecules in this entry. The entry contains 4749 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 CELL DIVISION CONTROL PROTEIN 2 HOMOLOG.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	277	2232	1444	380	401	7	0	0	1
1	B	275	2216	1436	377	396	7	0	0	1

- Molecule 2 is 2',3-DIOXO-1,1',2',3'-TETRAHYDRO-2,3'-BIINDOLE-5'-SULFONIC ACID (three-letter code: INR) (formula: C₁₆H₁₀N₂O₅S).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	N	O	S		
2	A	1	24	16	2	5	1	0	0
2	B	1	24	16	2	5	1	0	0

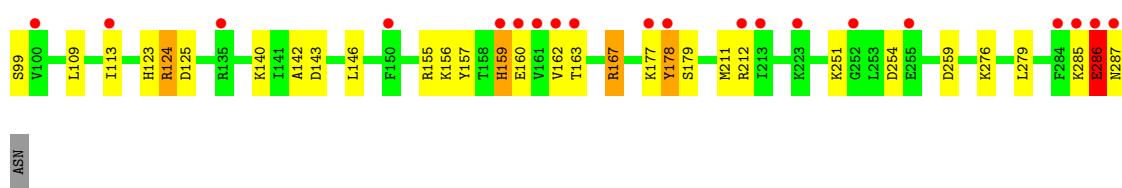
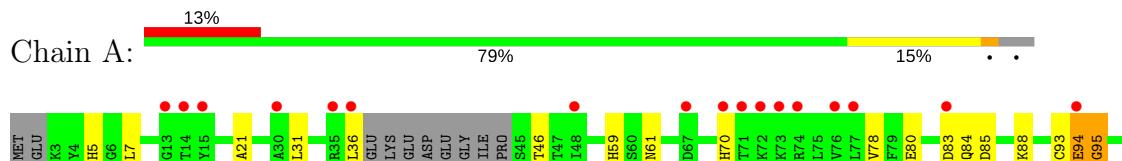
- Molecule 3 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	119	Total O 119 119	0	0
3	B	134	Total O 134 134	0	0

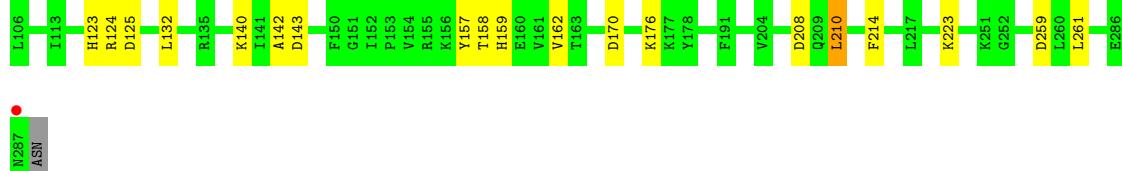
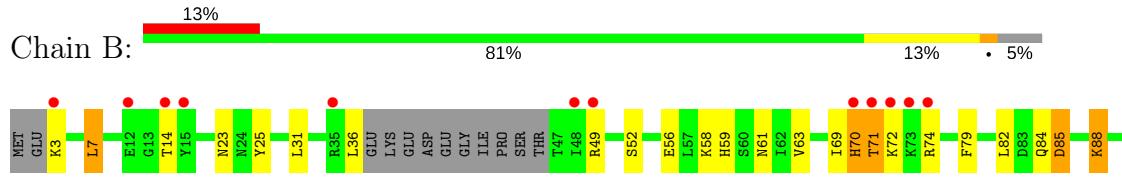
3 Residue-property plots

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: CELL DIVISION CONTROL PROTEIN 2 HOMOLOG



- Molecule 1: CELL DIVISION CONTROL PROTEIN 2 HOMOLOG



4 Data and refinement statistics i

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	60.56 Å 88.28 Å 63.86 Å 90.00° 97.33° 90.00°	Depositor
Resolution (Å)	63.25 – 1.90 18.11 – 1.90	Depositor EDS
% Data completeness (in resolution range)	97.0 (63.25-1.90) 94.0 (18.11-1.90)	Depositor EDS
R_{merge}	0.01	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle^1$	2.10 (at 1.90 Å)	Xtriage
Refinement program	REFMAC	Depositor
R , R_{free}	0.233 , 0.282 0.248 , 0.288	Depositor DCC
R_{free} test set	2517 reflections (5.38%)	DCC
Wilson B-factor (Å ²)	22.7	Xtriage
Anisotropy	0.935	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.45 , 67.1	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.34$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	4749	wwPDB-VP
Average B, all atoms (Å ²)	32.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.25% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical 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: INR

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	0.42	0/2281	0.73	8/3083 (0.3%)
1	B	0.43	0/2265	0.72	5/3061 (0.2%)
All	All	0.43	0/4546	0.73	13/6144 (0.2%)

There are no bond length outliers.

All (13) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	85	ASP	CB-CG-OD2	7.07	124.66	118.30
1	A	124	ARG	NE-CZ-NH2	-6.61	117.00	120.30
1	A	85	ASP	CB-CG-OD2	6.45	124.11	118.30
1	A	254	ASP	CB-CG-OD2	6.08	123.78	118.30
1	A	124	ARG	NE-CZ-NH1	5.91	123.25	120.30
1	B	143	ASP	CB-CG-OD2	5.87	123.58	118.30
1	B	208	ASP	CB-CG-OD2	5.84	123.56	118.30
1	A	83	ASP	CB-CG-OD2	5.66	123.39	118.30
1	B	259	ASP	CB-CG-OD2	5.39	123.15	118.30
1	A	259	ASP	CB-CG-OD2	5.27	123.04	118.30
1	A	143	ASP	CB-CG-OD2	5.16	122.94	118.30
1	A	286	GLU	O-C-N	-5.14	114.47	122.70
1	B	170	ASP	CB-CG-OD2	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	2232	0	2284	23	0
1	B	2216	0	2268	17	0
2	A	24	0	10	0	0
2	B	24	0	10	1	0
3	A	119	0	0	2	0
3	B	134	0	0	0	0
All	All	4749	0	4572	40	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 4.

All (40) 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:279:LEU:O	1:A:286:GLU:OE1	2.12	0.68
1:A:124:ARG:HD3	1:A:146:LEU:O	1.97	0.65
1:B:70:HIS:C	1:B:70:HIS:ND1	2.49	0.64
1:A:146:LEU:HD13	1:A:162:VAL:HG22	1.82	0.62
1:A:285:LYS:O	1:A:287:ASN:N	2.33	0.61
1:A:7:LEU:HD22	1:A:21:ALA:HB2	1.83	0.60
1:B:7:LEU:HD11	1:B:31:LEU:HD12	1.84	0.59
1:B:123:HIS:HE1	1:B:142:ALA:O	1.89	0.55
1:A:59:HIS:CD2	1:A:61:ASN:H	2.25	0.54
1:A:123:HIS:HD2	1:A:125:ASP:H	1.55	0.54
1:A:94:GLU:O	1:A:95:GLY:C	2.45	0.54
1:A:286:GLU:OE2	1:A:286:GLU:N	2.42	0.53
1:B:132:LEU:HD22	1:B:132:LEU:N	2.24	0.53
1:A:157:TYR:CZ	1:A:167:ARG:NH2	2.78	0.52
1:A:109:LEU:HD11	1:A:113:ILE:HD11	1.92	0.51
1:A:59:HIS:HD2	1:A:61:ASN:H	1.58	0.50
1:B:23:ASN:HB3	1:B:25:TYR:H	1.76	0.50
1:A:178:TYR:O	1:A:179:SER:OG	2.19	0.50
1:B:52:SER:O	1:B:56:GLU:HG2	2.12	0.50
1:B:123:HIS:HD2	1:B:125:ASP:H	1.61	0.49
1:B:124:ARG:NH2	1:B:157:TYR:HB2	2.28	0.48
1:A:157:TYR:OH	1:A:167:ARG:CZ	2.62	0.48
1:A:80:GLU:OE1	1:A:140:LYS:NZ	2.45	0.48
1:A:113:ILE:HG23	3:A:2072:HOH:O	2.13	0.47
1:B:69:ILE:HG22	1:B:71:THR:HG22	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:85:ASP:OD2	1:B:88:LYS:HD2	2.14	0.47
1:A:46:THR:HG21	1:A:155:ARG:CZ	2.44	0.47
1:A:177:LYS:NZ	3:A:2066:HOH:O	2.46	0.47
1:B:123:HIS:CD2	1:B:125:ASP:H	2.34	0.45
1:A:31:LEU:HD22	1:A:78:VAL:HG22	1.99	0.45
1:B:82:LEU:HD21	1:B:140:LYS:HD2	1.99	0.44
1:A:159:HIS:CE1	1:A:160:GLU:HA	2.53	0.44
1:B:59:HIS:CD2	1:B:61:ASN:H	2.37	0.43
1:B:63:VAL:HG21	1:B:142:ALA:HB2	2.01	0.42
1:B:70:HIS:O	1:B:70:HIS:ND1	2.53	0.41
1:A:123:HIS:HE1	1:A:142:ALA:O	2.04	0.41
1:B:210:LEU:HD22	1:B:214:PHE:CZ	2.56	0.41
1:A:178:TYR:O	1:A:179:SER:CB	2.68	0.41
1:A:212:ARG:HA	1:A:212:ARG:HD2	1.93	0.41
1:B:79:PHE:CG	2:B:2638:INR:H17	2.57	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	273/288 (95%)	260 (95%)	10 (4%)	3 (1%)	17 6
1	B	271/288 (94%)	265 (98%)	6 (2%)	0	100 100
All	All	544/576 (94%)	525 (96%)	16 (3%)	3 (1%)	28 16

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	286	GLU
1	A	95	GLY
1	A	178	TYR

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	245/256 (96%)	229 (94%)	16 (6%)	20 9
1	B	242/256 (94%)	223 (92%)	19 (8%)	14 6
All	All	487/512 (95%)	452 (93%)	35 (7%)	17 7

All (35) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	5	HIS
1	A	36	LEU
1	A	70	HIS
1	A	84	GLN
1	A	88	LYS
1	A	93	CYS
1	A	94	GLU
1	A	99	SER
1	A	156	LYS
1	A	159	HIS
1	A	163	THR
1	A	167	ARG
1	A	211	MET
1	A	251	LYS
1	A	276	LYS
1	A	286	GLU
1	B	3	LYS
1	B	7	LEU
1	B	14	THR
1	B	36	LEU
1	B	49	ARG
1	B	58	LYS
1	B	70	HIS
1	B	71	THR
1	B	72	LYS
1	B	74	ARG
1	B	84	GLN

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Mol	Chain	Res	Type
1	B	88	LYS
1	B	158	THR
1	B	159	HIS
1	B	162	VAL
1	B	176	LYS
1	B	210	LEU
1	B	223	LYS
1	B	261	LEU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (11) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	59	HIS
1	A	61	ASN
1	A	70	HIS
1	A	81	HIS
1	A	123	HIS
1	A	130	ASN
1	B	59	HIS
1	B	61	ASN
1	B	81	HIS
1	B	123	HIS
1	B	130	ASN

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	INR	A	2638	-	27,27,27	2.11	9 (33%)	40,42,42	2.98	14 (35%)
2	INR	B	2638	-	27,27,27	2.09	8 (29%)	40,42,42	3.18	13 (32%)

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	INR	A	2638	-	-	0/10/34/34	0/4/4/4
2	INR	B	2638	-	-	0/10/34/34	0/4/4/4

All (17) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	2638	INR	C19-S21	-7.53	1.61	1.77
2	A	2638	INR	C19-S21	-7.25	1.62	1.77
2	A	2638	INR	C2-C1	-2.84	1.37	1.41
2	B	2638	INR	C2-C1	-2.80	1.37	1.41
2	B	2638	INR	C16-N14	-2.76	1.33	1.38
2	B	2638	INR	C15-C16	-2.71	1.37	1.41
2	A	2638	INR	C15-C16	-2.48	1.38	1.41
2	A	2638	INR	C9-N7	-2.34	1.35	1.38
2	A	2638	INR	C16-N14	-2.17	1.34	1.38
2	B	2638	INR	O13-C12	2.02	1.27	1.23
2	A	2638	INR	C17-C16	2.28	1.43	1.39
2	B	2638	INR	C17-C16	2.30	1.43	1.39
2	A	2638	INR	O10-C8	2.32	1.28	1.23
2	B	2638	INR	O10-C8	2.36	1.28	1.23
2	B	2638	INR	C20-C15	2.96	1.44	1.39
2	A	2638	INR	C20-C15	3.14	1.44	1.39
2	A	2638	INR	O13-C12	3.38	1.29	1.23

All (27) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	2638	INR	C16-N14-C12	-9.50	105.72	111.38
2	B	2638	INR	C16-N14-C12	-9.45	105.75	111.38
2	B	2638	INR	C15-C11-C12	-6.81	100.62	105.27
2	B	2638	INR	C6-C1-C2	-4.78	117.27	122.19
2	A	2638	INR	C6-C1-C2	-4.69	117.36	122.19
2	A	2638	INR	C15-C11-C12	-4.61	102.12	105.27
2	B	2638	INR	C17-C16-N14	-4.02	122.74	130.93
2	B	2638	INR	O13-C12-N14	-3.81	120.41	126.39
2	A	2638	INR	C1-C2-C8	-3.71	104.94	107.30
2	B	2638	INR	C1-C2-C8	-3.57	105.03	107.30
2	A	2638	INR	C17-C16-N14	-3.27	124.26	130.93
2	A	2638	INR	O13-C12-N14	-2.36	122.69	126.39
2	A	2638	INR	C16-C15-C11	-2.26	104.61	106.48
2	A	2638	INR	C17-C16-C15	-2.11	120.02	122.19
2	A	2638	INR	O22-S21-C19	2.04	111.52	106.64
2	B	2638	INR	O23-S21-C19	2.12	111.71	106.64
2	B	2638	INR	O24-S21-C19	2.27	112.69	106.78
2	B	2638	INR	O10-C8-C9	2.30	127.89	125.39
2	A	2638	INR	O10-C8-C9	2.48	128.09	125.39
2	A	2638	INR	C2-C1-N7	4.39	113.37	108.26
2	B	2638	INR	C2-C1-N7	4.40	113.38	108.26
2	A	2638	INR	C3-C2-C1	5.12	124.50	118.84
2	B	2638	INR	C3-C2-C1	5.19	124.57	118.84
2	B	2638	INR	C15-C16-N14	6.39	115.69	108.26
2	A	2638	INR	C15-C16-N14	6.40	115.71	108.26
2	A	2638	INR	C11-C12-N14	7.72	111.84	106.84
2	B	2638	INR	C11-C12-N14	9.21	112.80	106.84

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	2638	INR	1	0

5.7 Other polymers [\(i\)](#)

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 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, 95th 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 ²)	Q<0.9
1	A	277/288 (96%)	0.89	37 (13%) 4 4	18, 29, 48, 54	0
1	B	275/288 (95%)	0.84	38 (13%) 3 3	18, 29, 51, 65	0
All	All	552/576 (95%)	0.87	75 (13%) 3 3	18, 29, 50, 65	0

All (75) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	161	VAL	14.0
1	A	161	VAL	12.4
1	A	178	TYR	8.8
1	B	159	HIS	7.8
1	A	252	GLY	6.5
1	B	162	VAL	6.2
1	B	160	GLU	6.1
1	B	158	THR	6.0
1	A	285	LYS	5.7
1	A	286	GLU	5.7
1	B	71	THR	5.6
1	B	178	TYR	5.3
1	B	70	HIS	5.3
1	B	14	THR	5.2
1	A	74	ARG	5.1
1	B	72	LYS	5.0
1	A	162	VAL	4.9
1	A	94	GLU	4.9
1	A	36	LEU	4.7
1	A	73	LYS	4.7
1	B	15	TYR	4.4
1	A	287	ASN	4.4
1	A	14	THR	4.4
1	B	35	ARG	4.2

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Mol	Chain	Res	Type	RSRZ
1	A	70	HIS	4.2
1	A	163	THR	4.1
1	B	150	PHE	4.0
1	A	35	ARG	4.0
1	A	135	ARG	4.0
1	A	15	TYR	3.9
1	A	159	HIS	3.9
1	B	135	ARG	3.7
1	B	73	LYS	3.7
1	A	255	GLU	3.5
1	A	71	THR	3.4
1	A	150	PHE	3.4
1	B	74	ARG	3.4
1	B	153	PRO	3.3
1	A	160	GLU	3.3
1	B	156	LYS	3.2
1	B	286	GLU	3.1
1	B	287	ASN	3.1
1	B	204	VAL	3.1
1	A	72	LYS	3.0
1	A	83	ASP	3.0
1	B	252	GLY	2.8
1	B	251	LYS	2.7
1	B	141	ILE	2.6
1	A	212	ARG	2.6
1	A	177	LYS	2.6
1	B	155	ARG	2.5
1	B	113	ILE	2.5
1	B	49	ARG	2.5
1	B	191	PHE	2.4
1	A	223	LYS	2.4
1	B	151	GLY	2.4
1	B	48	ILE	2.4
1	A	76	VAL	2.4
1	A	30	ALA	2.3
1	A	77	LEU	2.3
1	B	106	LEU	2.3
1	A	48	ILE	2.2
1	A	213	ILE	2.2
1	B	152	ILE	2.2
1	B	217	LEU	2.2
1	A	284	PHE	2.2

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Mol	Chain	Res	Type	RSRZ
1	B	261	LEU	2.1
1	A	67	ASP	2.1
1	A	113	ILE	2.1
1	A	13	GLY	2.1
1	A	100	VAL	2.1
1	B	132	LEU	2.1
1	B	3	LYS	2.0
1	B	163	THR	2.0
1	B	12	GLU	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, 95th 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 ²)	Q<0.9
2	INR	B	2638	24/24	0.95	0.12	-0.79	21,24,28,28	0
2	INR	A	2638	24/24	0.95	0.12	-0.81	22,25,28,30	0

6.5 Other polymers [\(i\)](#)

There are no such residues in this entry.