



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 1, 2016 – 04:32 PM GMT

PDB ID : 4FC0
Title : Crystal Structure of Human Kinase Domain of B-raf with a DFG-out Inhibitor
Authors : Yano, J.K.; Aertgeerts, K.
Deposited on : 2012-05-23
Resolution : 2.95 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 ⓘ symbol.

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

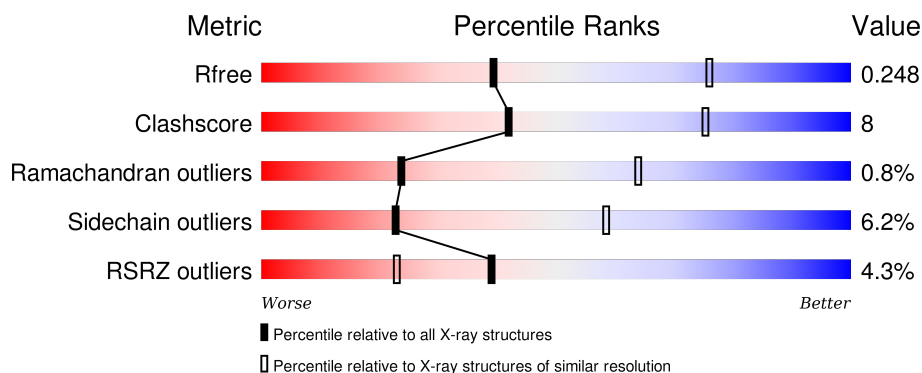
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.95 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	2184 (3.00-2.92)
Clashscore	102246	2552 (3.00-2.92)
Ramachandran outliers	100387	2468 (3.00-2.92)
Sidechain outliers	100360	2471 (3.00-2.92)
RSRZ outliers	91569	2201 (3.00-2.92)

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.

Mol	Chain	Length	Quality of chain
1	A	284	<div> <div>3%</div> <div>72%</div> <div>16%</div> <div>11%</div> </div>
1	B	284	<div> <div>5%</div> <div>73%</div> <div>17%</div> <div>7%</div> </div>

2 Entry composition [i](#)

There are 3 unique types of molecules in this entry. The entry contains 4366 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.

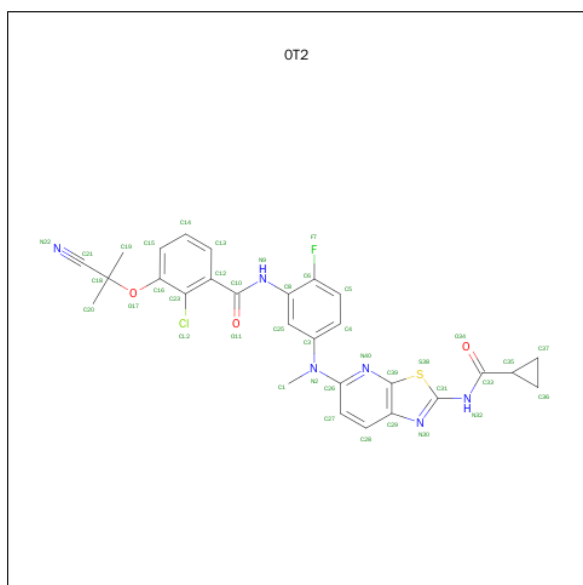
- Molecule 1 is a protein called Serine/threonine-protein kinase B-raf.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	254	Total	C	N	O	S	0	0	0
			2021	1295	352	361	13			
1	B	263	Total	C	N	O	S	0	0	0
			2105	1349	368	375	13			

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	442	GLY	-	EXPRESSION TAG	UNP P15056
A	443	SER	-	EXPRESSION TAG	UNP P15056
B	442	GLY	-	EXPRESSION TAG	UNP P15056
B	443	SER	-	EXPRESSION TAG	UNP P15056

- Molecule 2 is 2-CHLORO-3-[(2-CYANOPROPAN-2-YL)OXY]-N-{5-[[2-[(CYCLOPROPYLCARBONYL)AMINO][1,3]THIAZOLO[5,4-B]PYRIDIN-5-YL}(METHYL)AMINO]-2-FLUOROPHENYL}BENZAMIDE (three-letter code: 0T2) (formula: C₂₈H₂₄ClFN₆O₃S).



Mol	Chain	Residues	Atoms							ZeroOcc	AltConf
2	A	1	Total	C	Cl	F	N	O	S	0	0
			40	28	1	1	6	3	1		
2	B	1	Total	C	Cl	F	N	O	S	0	0
			40	28	1	1	6	3	1		

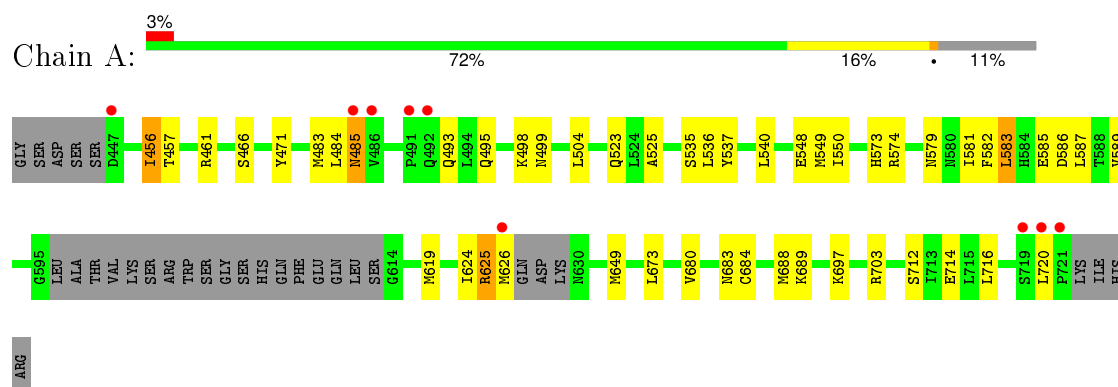
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	92	Total	O	0	0
			92	92		
3	B	68	Total	O	0	0
			68	68		

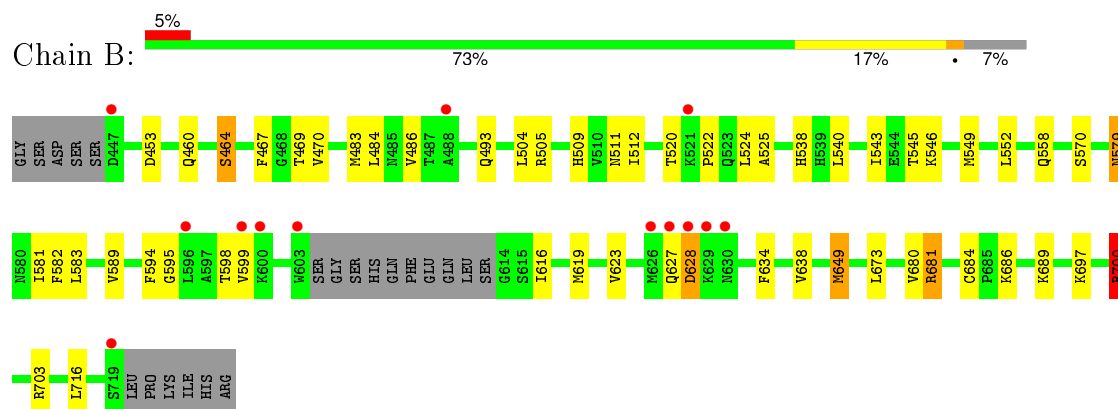
3 Residue-property plots [i](#)

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: Serine/threonine-protein kinase B-raf



- Molecule 1: Serine/threonine-protein kinase B-raf



4 Data and refinement statistics

Property	Value	Source
Space group	P 41 21 2	Depositor
Cell constants a, b, c, α , β , γ	109.97Å 109.97Å 145.97Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	30.00 – 2.95 29.85 – 2.95	Depositor EDS
% Data completeness (in resolution range)	99.4 (30.00-2.95) 99.4 (29.85-2.95)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.19	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.93 (at 2.95Å)	Xtriage
Refinement program	REFMAC 5.5.0109	Depositor
R, R_{free}	0.198 , 0.243 0.203 , 0.248	Depositor DCC
R_{free} test set	986 reflections (5.37%)	DCC
Wilson B-factor (Å ²)	39.8	Xtriage
Anisotropy	0.220	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 34.1	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Outliers	1 of 19354 reflections (0.005%)	Xtriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	4366	wwPDB-VP
Average B, all atoms (Å ²)	34.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.71% 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, 0.375 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: 0T2

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	0.36	0/2064	0.55	0/2787
1	B	0.41	0/2151	0.60	2/2904 (0.1%)
All	All	0.39	0/4215	0.58	2/5691 (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	B	700	ARG	NE-CZ-NH1	8.47	124.54	120.30
1	B	700	ARG	NE-CZ-NH2	-5.37	117.62	120.30

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	2021	0	2046	35	0
1	B	2105	0	2134	34	0
2	A	40	0	23	2	0
2	B	40	0	23	4	0
3	A	92	0	0	0	0
3	B	68	0	0	0	0
All	All	4366	0	4226	71	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 8.

All (71) 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:536:LEU:CD1	1:A:540:LEU:HD22	1.95	0.96
1:A:536:LEU:HD13	1:A:540:LEU:HD22	1.52	0.89
1:B:579:ASN:H	1:B:579:ASN:HD22	1.33	0.76
1:B:549:MET:SD	1:B:649:MET:HE2	2.29	0.73
1:B:549:MET:SD	1:B:649:MET:CE	2.78	0.71
1:B:619:MET:HE3	1:B:623:VAL:HG12	1.80	0.63
1:B:700:ARG:HH11	1:B:700:ARG:HG3	1.64	0.62
1:B:619:MET:CE	1:B:623:VAL:HG12	2.31	0.60
1:A:688:MET:HB2	1:A:716:LEU:HD21	1.84	0.59
2:B:901:OT2:S38	2:B:901:OT2:O34	2.62	0.57
2:A:901:OT2:S38	2:A:901:OT2:O34	2.63	0.57
1:B:511:ASN:HD21	1:B:558:GLN:HE21	1.52	0.56
1:B:594:PHE:HB3	1:B:598:THR:HG23	1.89	0.55
1:B:504:LEU:HD21	2:B:901:OT2:CL2	2.44	0.55
1:A:697:LYS:O	1:A:703:ARG:NH1	2.40	0.55
1:B:549:MET:SD	1:B:649:MET:HE1	2.47	0.55
1:B:649:MET:HG3	1:B:684:CYS:SG	2.47	0.54
1:A:625:ARG:O	1:A:625:ARG:HG3	2.07	0.54
1:B:520:THR:HG22	1:B:524:LEU:CD2	2.36	0.54
1:A:483:MET:CE	1:A:523:GLN:NE2	2.71	0.54
1:B:552:LEU:HD11	1:B:681:ARG:NH2	2.23	0.54
1:A:484:LEU:HD11	1:A:493:GLN:NE2	2.22	0.54
1:A:548:GLU:HG3	1:A:550:ILE:HG22	1.89	0.53
1:A:495:GLN:HE21	1:A:499:ASN:HD21	1.57	0.53
1:A:536:LEU:CD1	1:A:540:LEU:CD2	2.80	0.52
1:A:536:LEU:HD11	1:A:540:LEU:HD22	1.85	0.52
1:A:649:MET:HE2	1:A:684:CYS:SG	2.49	0.52
1:B:649:MET:HE3	1:B:649:MET:HA	1.92	0.51
1:B:579:ASN:ND2	1:B:579:ASN:H	2.04	0.51
1:A:504:LEU:HD21	2:A:901:OT2:CL2	2.48	0.51
1:A:625:ARG:O	1:A:626:MET:C	2.49	0.51
1:A:649:MET:CE	1:A:684:CYS:SG	3.00	0.50
1:B:538:HIS:CE1	1:B:543:ILE:HG23	2.45	0.50
1:B:581:ILE:HG23	1:B:589:VAL:HG13	1.94	0.50
1:A:537:TYR:HB3	1:A:579:ASN:HD22	1.77	0.50
1:B:697:LYS:O	1:B:703:ARG:NH1	2.43	0.50
1:A:484:LEU:HD13	1:A:485:ASN:N	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:536:LEU:HD11	1:A:540:LEU:CD2	2.42	0.49
1:B:470:VAL:HG21	2:B:901:OT2:H2	1.95	0.49
1:A:549:MET:HE1	1:A:649:MET:HE3	1.95	0.48
1:B:616:ILE:HD12	1:B:616:ILE:N	2.29	0.47
1:B:634:PHE:O	1:B:638:VAL:HG23	2.14	0.47
1:B:700:ARG:HH11	1:B:700:ARG:CG	2.27	0.47
1:A:619:MET:HE1	1:A:624:ILE:HA	1.96	0.47
1:A:483:MET:HE1	1:A:523:GLN:HE21	1.80	0.47
1:B:511:ASN:HD21	1:B:558:GLN:NE2	2.14	0.46
1:A:549:MET:HB2	1:A:683:ASN:ND2	2.30	0.46
1:A:583:LEU:HD22	1:A:586:ASP:HA	1.97	0.46
1:B:484:LEU:HD11	1:B:493:GLN:HB3	1.98	0.46
1:A:549:MET:SD	1:A:649:MET:HE3	2.56	0.46
1:B:627:GLN:HE21	1:B:628:ASP:HB2	1.81	0.44
1:A:535:SER:HA	1:A:582:PHE:HA	2.00	0.43
1:A:456:ILE:HD12	1:A:456:ILE:H	1.84	0.43
1:B:680:VAL:HG21	1:B:689:LYS:HD2	2.00	0.43
1:B:520:THR:HG22	1:B:524:LEU:HD23	2.01	0.42
1:A:680:VAL:HG21	1:A:689:LYS:HD2	2.01	0.42
1:B:700:ARG:NH1	1:B:700:ARG:HG3	2.33	0.42
1:A:483:MET:HE2	1:A:523:GLN:HB2	2.01	0.42
1:A:483:MET:HE2	1:A:523:GLN:NE2	2.35	0.42
1:B:509:HIS:HB3	1:B:512:ILE:HD13	2.00	0.42
1:A:549:MET:SD	1:A:649:MET:CE	3.08	0.42
1:A:549:MET:CE	1:A:649:MET:HE3	2.49	0.42
1:B:483:MET:HB3	1:B:525:ALA:HB2	2.03	0.41
1:A:483:MET:HE3	1:A:525:ALA:HB2	2.01	0.41
1:A:573:HIS:O	1:A:574:ARG:HB2	2.19	0.41
1:A:461:ARG:HG3	1:A:471:TYR:CE2	2.55	0.41
1:B:464:SER:OG	1:B:469:THR:HG23	2.21	0.40
1:A:581:ILE:HG23	1:A:589:VAL:HG13	2.02	0.40
1:B:582:PHE:HZ	2:B:901:OT2:H21	1.86	0.40
1:B:453:ASP:OD1	1:B:522:PRO:HG3	2.21	0.40
1:B:484:LEU:HD22	1:B:486:VAL:HG13	2.04	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

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	248/284 (87%)	233 (94%)	12 (5%)	3 (1%)	16	53
1	B	259/284 (91%)	247 (95%)	11 (4%)	1 (0%)	39	78
All	All	507/568 (89%)	480 (95%)	23 (4%)	4 (1%)	24	64

All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	720	LEU
1	A	466	SER
1	B	595	GLY
1	A	485	ASN

5.3.2 Protein sidechains

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	221/250 (88%)	211 (96%)	10 (4%)	34	72
1	B	230/250 (92%)	212 (92%)	18 (8%)	16	46
All	All	451/500 (90%)	423 (94%)	28 (6%)	23	58

All (28) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	456	ILE
1	A	457	THR

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Mol	Chain	Res	Type
1	A	498	LYS
1	A	583	LEU
1	A	585	GLU
1	A	587	LEU
1	A	625	ARG
1	A	673	LEU
1	A	712	SER
1	A	714	GLU
1	B	460	GLN
1	B	464	SER
1	B	467	PHE
1	B	505	ARG
1	B	540	LEU
1	B	545	THR
1	B	546	LYS
1	B	570	SER
1	B	579	ASN
1	B	583	LEU
1	B	599	VAL
1	B	628	ASP
1	B	649	MET
1	B	673	LEU
1	B	681	ARG
1	B	686	LYS
1	B	700	ARG
1	B	716	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	493	GLN
1	A	499	ASN
1	A	523	GLN
1	A	561	GLN
1	A	579	ASN
1	A	584	HIS
1	B	538	HIS
1	B	558	GLN
1	B	579	ASN
1	B	584	HIS
1	B	627	GLN

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 ⓘ

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	0T2	A	901	-	40,44,44	0.72	1 (2%)	48,65,65	2.20	11 (22%)
2	0T2	B	901	-	40,44,44	0.74	0	48,65,65	1.72	7 (14%)

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	0T2	A	901	-	-	2/27/34/34	0/4/5/5
2	0T2	B	901	-	-	2/27/34/34	0/4/5/5

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	901	0T2	C31-N32	2.30	1.40	1.36

All (18) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	901	0T2	O34-C33-C35	-5.11	115.49	122.12
2	A	901	0T2	C19-C18-C20	-4.31	107.01	110.89
2	B	901	0T2	O34-C33-C35	-3.73	117.28	122.12
2	B	901	0T2	C20-C18-C21	-3.57	104.97	109.65
2	A	901	0T2	O34-C33-N32	-2.20	119.79	123.94
2	B	901	0T2	C5-C6-C8	-2.20	121.01	123.36
2	A	901	0T2	C20-C18-C21	-2.16	106.82	109.65
2	B	901	0T2	C23-C12-C10	-2.15	119.71	122.70
2	A	901	0T2	F7-C6-C8	2.26	119.77	117.50
2	A	901	0T2	C27-C26-N2	2.44	125.26	121.49
2	B	901	0T2	C36-C35-C33	2.46	119.61	117.26
2	A	901	0T2	C3-N2-C26	2.47	126.23	120.67
2	A	901	0T2	O17-C16-C23	3.34	120.17	115.62
2	B	901	0T2	C35-C33-N32	4.51	121.44	115.17
2	A	901	0T2	C36-C35-C33	5.96	122.95	117.26
2	B	901	0T2	C26-N40-C39	6.39	122.70	117.86
2	A	901	0T2	C26-N40-C39	6.53	122.81	117.86
2	A	901	0T2	C35-C33-N32	6.85	124.70	115.17

There are no chirality outliers.

All (4) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	B	901	0T2	C36-C35-C33-N32
2	B	901	0T2	O34-C33-C35-C36
2	A	901	0T2	C36-C35-C33-N32
2	A	901	0T2	O34-C33-C35-C36

There are no ring outliers.

2 monomers are involved in 6 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	901	0T2	2	0
2	B	901	0T2	4	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, 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	254/284 (89%)	-0.21	9 (3%)	48	29	16, 31, 62, 86	0
1	B	263/284 (92%)	-0.11	13 (4%)	33	19	16, 31, 56, 72	0
All	All	517/568 (91%)	-0.16	22 (4%)	39	23	16, 31, 59, 86	0

All (22) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	721	PRO	4.5
1	B	447	ASP	4.4
1	B	629	LYS	4.1
1	A	486	VAL	3.8
1	B	628	ASP	3.6
1	B	599	VAL	3.5
1	B	600	LYS	3.4
1	B	627	GLN	3.3
1	A	626	MET	3.0
1	A	492	GLN	2.8
1	B	719	SER	2.6
1	B	603	TRP	2.6
1	A	491	PRO	2.5
1	B	521	LYS	2.5
1	A	485	ASN	2.5
1	B	488	ALA	2.4
1	A	719	SER	2.4
1	A	447	ASP	2.4
1	B	626	MET	2.2
1	A	720	LEU	2.2
1	B	630	ASN	2.2
1	B	596	LEU	2.2

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(\AA^2)	Q<0.9
2	0T2	A	901	40/40	0.96	0.15	-0.05	16,19,36,37	0
2	0T2	B	901	40/40	0.95	0.15	-0.47	20,24,33,36	0

6.5 Other polymers [i](#)

There are no such residues in this entry.