



# Full wwPDB X-ray Structure Validation Report ⓘ

Mar 9, 2018 – 12:50 pm GMT

PDB ID : 2HWP  
Title : Crystal structure of Src kinase domain in complex with covalent inhibitor PD168393  
Authors : Rauh, D.; Blair, J.A.; Shokat, K.M.  
Deposited on : 2006-08-01  
Resolution : 2.48 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 : trunk30967  
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) : trunk30967

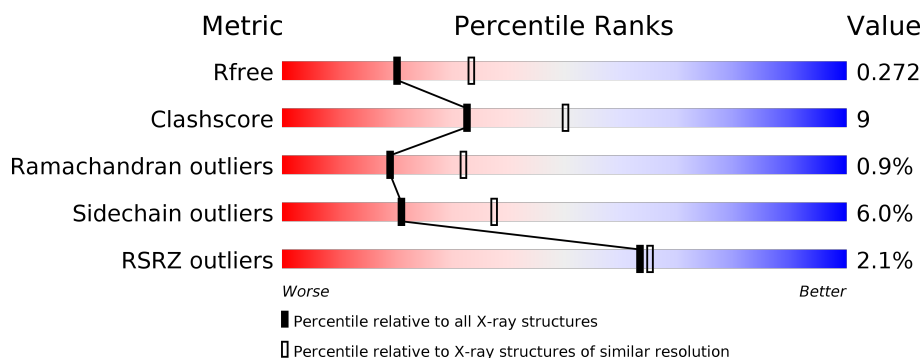
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 2.48 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	5140 (2.50-2.46)
Clashscore	122126	5860 (2.50-2.46)
Ramachandran outliers	120053	5763 (2.50-2.46)
Sidechain outliers	120020	5765 (2.50-2.46)
RSRZ outliers	108989	5026 (2.50-2.46)

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	<div> <div>3%</div> <div> <div></div> <div>71%</div> <div>12%</div> <div>•</div> <div>14%</div> </div> </div>
1	B	286	<div> <div>69%</div> <div>13%</div> <div>•</div> <div>16%</div> </div>

## 2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 3763 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.

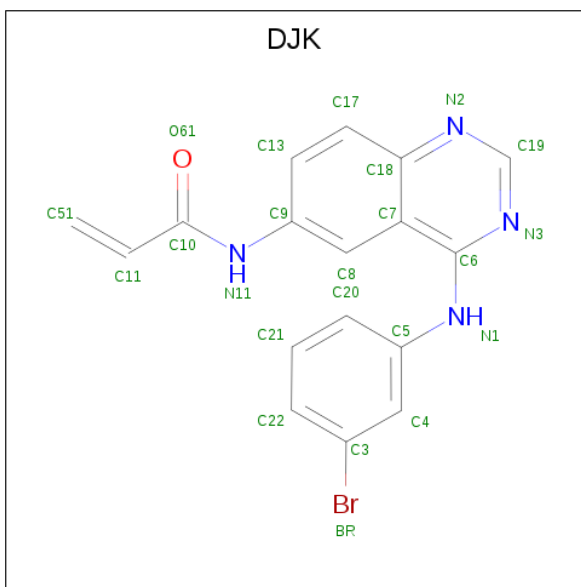
- Molecule 1 is a protein called Proto-oncogene tyrosine-protein kinase Src.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	245	Total	C	N	O	S	0	0	0
			1855	1196	313	330	16			
1	B	239	Total	C	N	O	S	0	0	0
			1832	1183	306	328	15			

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	248	GLY	-	CLONING ARTIFACT	UNP P00523
A	249	HIS	-	CLONING ARTIFACT	UNP P00523
A	250	MET	-	CLONING ARTIFACT	UNP P00523
A	345	CYS	SER	ENGINEERED	UNP P00523
B	248	GLY	-	CLONING ARTIFACT	UNP P00523
B	249	HIS	-	CLONING ARTIFACT	UNP P00523
B	250	MET	-	CLONING ARTIFACT	UNP P00523
B	345	CYS	SER	ENGINEERED	UNP P00523

- Molecule 2 is N-[4-(3-BROMO-PHENYLAMINO)-QUINAZOLIN-6-YL]-ACRYLAMIDE (three-letter code: DJK) (formula: C<sub>17</sub>H<sub>13</sub>BrN<sub>4</sub>O).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
2	A	1	Total	Br	C	N	O	0	0
			23	1	17	4	1		
2	B	1	Total	Br	C	N	O	0	0
			23	1	17	4	1		

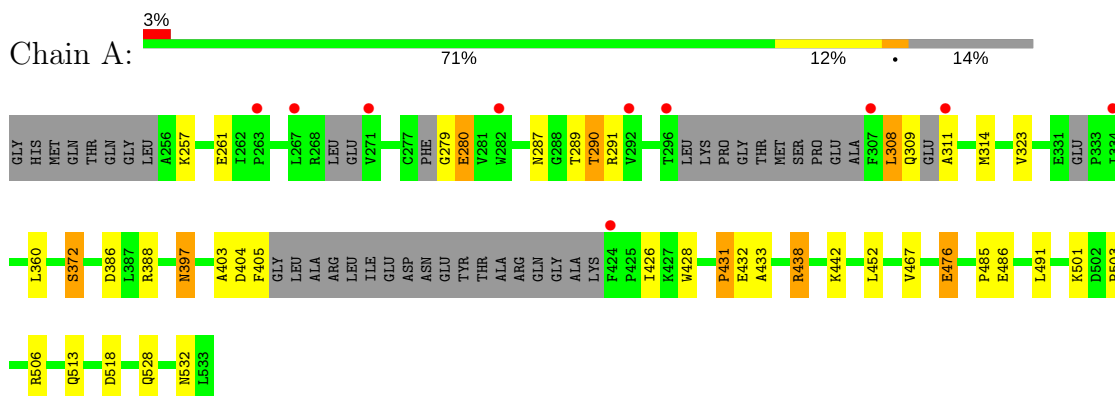
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	15	Total	O	0	0
			15	15		
3	B	15	Total	O	0	0
			15	15		

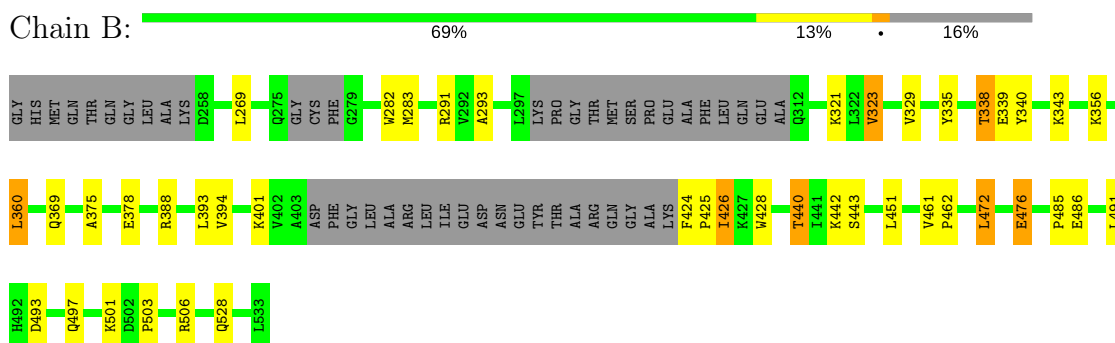
### 3 Residue-property plots [i](#)

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: Proto-oncogene tyrosine-protein kinase Src



- Molecule 1: Proto-oncogene tyrosine-protein kinase Src



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	42.06Å 63.01Å 73.69Å 100.74° 89.81° 90.20°	Depositor
Resolution (Å)	72.36 – 2.48 43.24 – 2.48	Depositor EDS
% Data completeness (in resolution range)	93.3 (72.36-2.48) 92.9 (43.24-2.48)	Depositor EDS
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	4.57 (at 2.48Å)	Xtriage
Refinement program	REFMAC 5.2.0019	Depositor
R, $R_{free}$	0.225 , 0.276 0.221 , 0.272	Depositor DCC
$R_{free}$ test set	1237 reflections (5.03%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	30.6	Xtriage
Anisotropy	0.405	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.33 , 41.3	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.50$ , $\langle L^2 \rangle = 0.34$	Xtriage
Estimated twinning fraction	0.014 for h,-k,-l	Xtriage
$F_o, F_c$ correlation	0.91	EDS
Total number of atoms	3763	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	29.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.64% 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: DJK

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	0.61	0/1897	0.69	0/2575
1	B	0.60	0/1876	0.68	1/2554 (0.0%)
All	All	0.61	0/3773	0.69	1/5129 (0.0%)

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	360	LEU	CB-CG-CD1	-5.35	101.90	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	1855	0	1757	29	1
1	B	1832	0	1760	35	0
2	A	23	0	11	4	0
2	B	23	0	12	2	0
3	A	15	0	0	0	0
3	B	15	0	0	0	0
All	All	3763	0	3540	68	1

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 9.

All (68) 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:476:GLU:HA	1:B:476:GLU:OE2	1.33	1.13
1:A:476:GLU:OE1	1:A:476:GLU:HA	1.33	1.10
1:B:293:ALA:HB3	1:B:338:THR:HG22	1.50	0.94
1:A:476:GLU:CA	1:A:476:GLU:OE1	2.15	0.89
1:B:426:ILE:HD13	1:B:472:LEU:CD2	2.02	0.88
1:B:426:ILE:HD13	1:B:472:LEU:HD21	1.57	0.86
1:A:323:VAL:HG11	1:A:403:ALA:HB2	1.56	0.86
1:A:323:VAL:CG1	1:A:403:ALA:HB2	2.06	0.85
1:B:426:ILE:CD1	1:B:472:LEU:HD22	2.09	0.81
1:B:476:GLU:CA	1:B:476:GLU:OE2	2.21	0.78
1:B:424:PHE:N	1:B:425:PRO:HA	2.05	0.70
1:B:426:ILE:CD1	1:B:472:LEU:CD2	2.69	0.70
1:A:279:GLY:O	1:A:280:GLU:CB	2.39	0.70
1:B:424:PHE:N	1:B:426:ILE:H	1.93	0.67
1:A:287:ASN:O	1:A:289:THR:HG22	1.95	0.67
1:B:426:ILE:HD11	1:B:472:LEU:HD22	1.75	0.66
1:A:257:LYS:CB	1:A:261:GLU:HG3	2.27	0.65
1:A:308:LEU:O	1:A:311:ALA:N	2.29	0.65
2:A:1345:DJK:N3	2:A:1345:DJK:H4	2.14	0.62
1:A:518:ASP:CG	1:B:461:VAL:HG23	2.21	0.61
1:A:386:ASP:CB	1:A:388:ARG:NH1	2.63	0.61
1:B:424:PHE:N	1:B:425:PRO:CA	2.65	0.59
1:B:388:ARG:HB3	1:B:428:TRP:CD1	2.36	0.59
1:B:283:MET:HG3	1:B:340:TYR:CE1	2.38	0.58
2:B:1345:DJK:N3	2:B:1345:DJK:H4	2.19	0.57
2:B:1345:DJK:H8	2:B:1345:DJK:O61	2.04	0.57
1:A:386:ASP:CB	1:A:388:ARG:HH12	2.18	0.56
1:A:431:PRO:O	1:A:433:ALA:N	2.39	0.56
1:A:323:VAL:HG13	1:A:403:ALA:HB2	1.86	0.56
1:B:493:ASP:OD2	1:B:497:GLN:NE2	2.38	0.55
1:A:314:MET:HG2	1:A:405:PHE:CZ	2.42	0.55
1:A:314:MET:SD	1:A:405:PHE:CE1	3.00	0.54
1:B:283:MET:HG3	1:B:340:TYR:CZ	2.43	0.53
1:B:323:VAL:HG11	1:B:393:LEU:HD12	1.91	0.52
1:B:501:LYS:O	1:B:503:PRO:HD3	2.09	0.52
1:A:486:GLU:OE2	1:A:532:ASN:ND2	2.43	0.51
1:B:321:LYS:HA	1:B:401:LYS:HG2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:283:MET:SD	1:B:291:ARG:NH1	2.85	0.49
1:A:308:LEU:O	1:A:309:GLN:C	2.49	0.49
1:B:388:ARG:CB	1:B:428:TRP:CD1	2.95	0.49
1:A:503:PRO:O	1:A:506:ARG:HB2	2.14	0.48
1:B:440:THR:HG23	1:B:443:SER:OG	2.14	0.47
1:A:404:ASP:OD1	2:A:1345:DJK:C20	2.64	0.46
1:A:501:LYS:O	1:A:503:PRO:HD3	2.15	0.45
1:B:424:PHE:N	1:B:426:ILE:N	2.63	0.45
2:A:1345:DJK:N3	2:A:1345:DJK:C4	2.79	0.45
1:A:289:THR:HG23	1:A:290:THR:OG1	2.16	0.45
1:B:493:ASP:O	1:B:497:GLN:HG3	2.16	0.45
2:A:1345:DJK:O61	2:A:1345:DJK:H8	2.17	0.45
1:B:424:PHE:N	1:B:426:ILE:HG22	2.32	0.44
1:A:431:PRO:C	1:A:433:ALA:H	2.21	0.44
1:B:343:LYS:HB2	1:B:394:VAL:HB	1.99	0.44
1:B:461:VAL:HA	1:B:462:PRO:HD3	1.85	0.43
1:A:431:PRO:C	1:A:433:ALA:N	2.72	0.42
1:A:388:ARG:HB3	1:A:428:TRP:CD1	2.54	0.42
1:A:308:LEU:O	1:A:309:GLN:O	2.38	0.42
1:B:329:VAL:HB	1:B:335:TYR:HB2	2.02	0.42
1:B:375:ALA:O	1:B:378:GLU:HB3	2.19	0.42
1:B:338:THR:HG23	1:B:339:GLU:O	2.19	0.42
1:B:321:LYS:HD2	1:B:369:GLN:HB3	2.00	0.42
1:B:503:PRO:O	1:B:506:ARG:HB2	2.19	0.42
1:A:452:LEU:HA	1:A:452:LEU:HD23	1.95	0.41
1:A:372:SER:HB2	1:A:513:GLN:NE2	2.35	0.41
1:A:442:LYS:NZ	1:A:506:ARG:O	2.47	0.41
1:B:485:PRO:O	1:B:486:GLU:HB2	2.21	0.41
1:B:440:THR:OG1	1:B:442:LYS:N	2.51	0.41
1:B:269:LEU:HB3	1:B:282:TRP:CE3	2.56	0.40
1:A:485:PRO:O	1:A:486:GLU:HB2	2.21	0.40

All (1) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:397:ASN:ND2	1:A:438:ARG:CD[1_455]	2.13	0.07

## 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	231/286 (81%)	221 (96%)	6 (3%)	4 (2%)	10	16
1	B	231/286 (81%)	221 (96%)	10 (4%)	0	100	100
All	All	462/572 (81%)	442 (96%)	16 (4%)	4 (1%)	19	32

All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	280	GLU
1	A	432	GLU
1	A	308	LEU
1	A	431	PRO

### 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	182/245 (74%)	171 (94%)	11 (6%)	21	37
1	B	185/245 (76%)	174 (94%)	11 (6%)	21	38
All	All	367/490 (75%)	345 (94%)	22 (6%)	21	37

All (22) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	290	THR
1	A	291	ARG

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Mol	Chain	Res	Type
1	A	360	LEU
1	A	372	SER
1	A	397	ASN
1	A	426	ILE
1	A	438	ARG
1	A	467	VAL
1	A	476	GLU
1	A	491	LEU
1	A	528	GLN
1	B	323	VAL
1	B	338	THR
1	B	356	LYS
1	B	360	LEU
1	B	426	ILE
1	B	440	THR
1	B	451	LEU
1	B	472	LEU
1	B	476	GLU
1	B	491	LEU
1	B	528	GLN

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	381	ASN
1	A	397	ASN
1	B	397	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

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	DJK	A	1345	1	25,25,25	1.63	3 (12%)	32,34,34	3.09	9 (28%)
2	DJK	B	1345	1	25,25,25	1.64	3 (12%)	32,34,34	2.82	9 (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	DJK	A	1345	1	-	0/10/10/10	0/3/3/3
2	DJK	B	1345	1	-	1/10/10/10	0/3/3/3

All (6) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	1345	DJK	C6-C7	-3.15	1.41	1.44
2	B	1345	DJK	C6-C7	-2.74	1.41	1.44
2	B	1345	DJK	C11-C10	2.47	1.52	1.48
2	A	1345	DJK	C11-C10	2.58	1.52	1.48
2	A	1345	DJK	C51-C11	4.76	1.53	1.30
2	B	1345	DJK	C51-C11	4.98	1.55	1.30

All (18) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	1345	DJK	C51-C11-C10	-9.78	113.01	122.42
2	A	1345	DJK	N2-C19-N3	-8.57	121.52	128.86
2	B	1345	DJK	C51-C11-C10	-7.63	115.07	122.42
2	B	1345	DJK	N2-C19-N3	-7.44	122.50	128.86
2	B	1345	DJK	C8-C7-C6	-4.54	122.12	124.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	1345	DJK	C8-C7-C6	-3.41	122.79	124.81
2	B	1345	DJK	C7-C18-N2	-3.16	119.52	122.88
2	A	1345	DJK	C7-C6-N3	-2.99	119.30	121.35
2	B	1345	DJK	C7-C6-N3	-2.86	119.39	121.35
2	A	1345	DJK	C7-C18-N2	-2.86	119.84	122.88
2	A	1345	DJK	O61-C10-C11	-2.27	119.03	122.83
2	B	1345	DJK	BR-C3-C4	2.35	122.55	119.27
2	A	1345	DJK	C6-C7-C18	4.00	118.24	115.89
2	B	1345	DJK	C19-N2-C18	4.81	120.06	115.24
2	B	1345	DJK	C6-C7-C18	4.81	118.71	115.89
2	B	1345	DJK	C19-N3-C6	5.04	119.82	116.52
2	A	1345	DJK	C19-N2-C18	5.11	120.36	115.24
2	A	1345	DJK	C19-N3-C6	6.45	120.74	116.52

There are no chirality outliers.

All (1) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	B	1345	DJK	C51-C11-C10-N11

There are no ring outliers.

2 monomers are involved in 6 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	1345	DJK	4	0
2	B	1345	DJK	2	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 [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, 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	245/286 (85%)	-0.02	10 (4%) 37 39	10, 26, 62, 83	1 (0%)
1	B	239/286 (83%)	-0.17	0 100 100	11, 26, 53, 64	0
All	All	484/572 (84%)	-0.09	10 (2%) 63 65	10, 26, 60, 83	1 (0%)

All (10) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	424	PHE	4.9
1	A	267	LEU	4.3
1	A	296	THR	3.2
1	A	263	PRO	2.8
1	A	307	PHE	2.7
1	A	334	ILE	2.7
1	A	282	TRP	2.5
1	A	271	VAL	2.3
1	A	311	ALA	2.1
1	A	292	VAL	2.1

### 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( $\text{\AA}^2$ )	Q<0.9
2	DJK	A	1345	23/23	0.86	0.21	31,42,42,42	1
2	DJK	B	1345	23/23	0.89	0.22	35,42,43,43	1

## 6.5 Other polymers [i](#)

There are no such residues in this entry.