



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 14, 2018 – 02:07 pm GMT

PDB ID : 3V5Q
Title : Discovery of a selective TRK Inhibitor with efficacy in rodent cancer tumor models
Authors : Kreusch, A.
Deposited on : 2011-12-16
Resolution : 2.20 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

<https://www.wwpdb.org/validation/2017/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

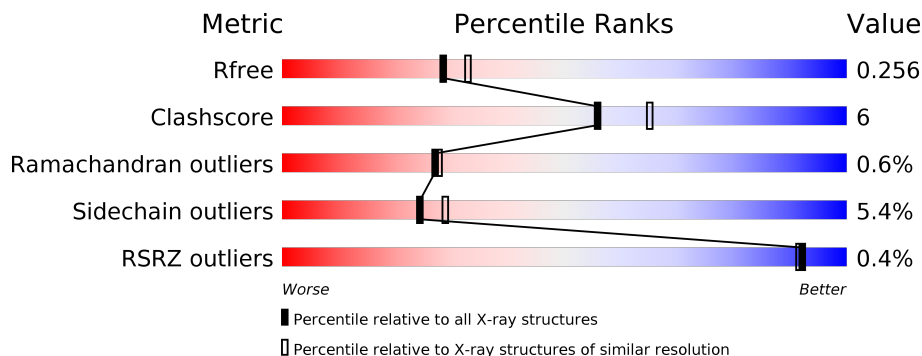
The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467
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

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X-RAY DIFFRACTION

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	4343 (2.20-2.20)
Clashscore	122126	5027 (2.20-2.20)
Ramachandran outliers	120053	4952 (2.20-2.20)
Sidechain outliers	120020	4953 (2.20-2.20)
RSRZ outliers	108989	4245 (2.20-2.20)

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	297	<div> <div> <div></div> <div>72%</div> <div>15%</div> <div>11%</div> </div> </div>
1	B	297	<div> <div> <div></div> <div>77%</div> <div>11%</div> <div>11%</div> </div> </div>

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 4480 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 NT-3 growth factor receptor.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	263	Total	C	N	O	S	0	0	0
			2100	1359	362	363	16			
1	B	265	Total	C	N	O	S	0	0	0
			2116	1369	365	366	16			

There are 16 discrepancies between the modelled and reference sequences:

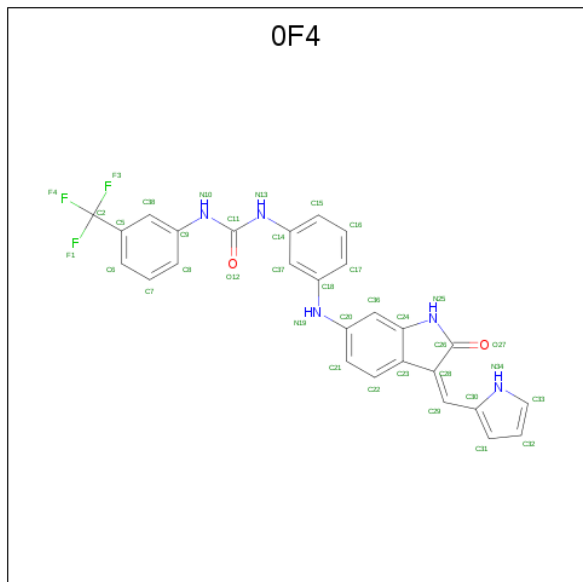
Chain	Residue	Modelled	Actual	Comment	Reference
A	-8	GLY	-	CLONING ARTIFACT	UNP Q16288
A	-7	ALA	-	CLONING ARTIFACT	UNP Q16288
A	-6	MET	-	CLONING ARTIFACT	UNP Q16288
A	-5	HIS	-	CLONING ARTIFACT	UNP Q16288
A	-4	SER	-	CLONING ARTIFACT	UNP Q16288
A	-3	GLY	-	CLONING ARTIFACT	UNP Q16288
A	-2	ILE	-	CLONING ARTIFACT	UNP Q16288
A	-1	HIS	-	CLONING ARTIFACT	UNP Q16288
B	-8	GLY	-	CLONING ARTIFACT	UNP Q16288
B	-7	ALA	-	CLONING ARTIFACT	UNP Q16288
B	-6	MET	-	CLONING ARTIFACT	UNP Q16288
B	-5	HIS	-	CLONING ARTIFACT	UNP Q16288
B	-4	SER	-	CLONING ARTIFACT	UNP Q16288
B	-3	GLY	-	CLONING ARTIFACT	UNP Q16288
B	-2	ILE	-	CLONING ARTIFACT	UNP Q16288
B	-1	HIS	-	CLONING ARTIFACT	UNP Q16288

- Molecule 2 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	1	Total	Cl	0	0
			1	1		

- Molecule 3 is 1-(3-{[(3Z)-2-oxo-3-(1H-pyrrol-2-ylmethylidene)-2,3-dihydro-1H-indol-6

-yl]amino}phenyl)-3-[3-(trifluoromethyl)phenyl]urea (three-letter code: 0F4) (formula: $C_{27}H_{20}F_3N_5O_2$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	A	1	Total	C	F	N	O	0	0
			37	27	3	5	2		
3	B	1	Total	C	F	N	O	0	0
			37	27	3	5	2		

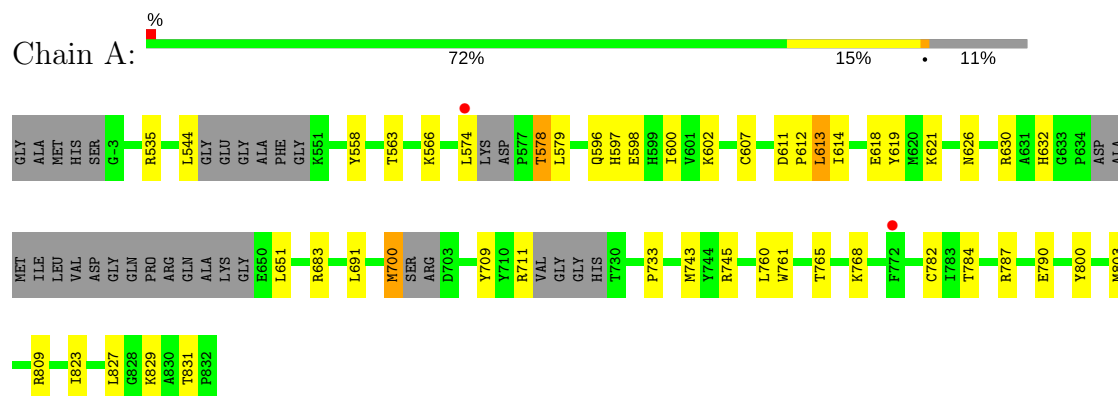
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	101	Total	O	0	0
			101	101		
4	B	88	Total	O	0	0
			88	88		

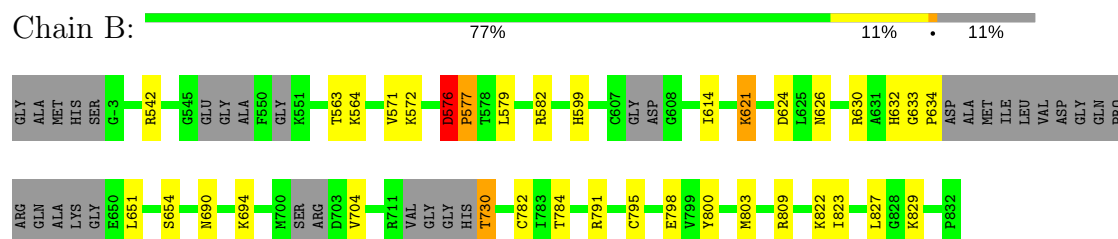
3 Residue-property plots

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: NT-3 growth factor receptor



- Molecule 1: NT-3 growth factor receptor



4 Data and refinement statistics

Property	Value	Source
Space group	P 32	Depositor
Cell constants a, b, c, α , β , γ	65.58Å 65.58Å 177.25Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	40.95 – 2.20 40.95 – 2.19	Depositor EDS
% Data completeness (in resolution range)	85.2 (40.95-2.20) 84.5 (40.95-2.19)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.65 (at 2.18Å)	Xtriage
Refinement program	PHENIX 1.7.2_869	Depositor
R, R_{free}	0.212 , 0.264 0.206 , 0.256	Depositor DCC
R_{free} test set	1878 reflections (5.04%)	wwPDB-VP
Wilson B-factor (Å ²)	41.8	Xtriage
Anisotropy	0.088	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 40.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	0.037 for -h,-k,l 0.459 for h,-h-k,-l 0.047 for -k,-h,-l	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	4480	wwPDB-VP
Average B, all atoms (Å ²)	45.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.84% 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: 0F4, CL

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	0.43	0/2148	0.56	0/2901
1	B	0.41	0/2164	0.56	1/2920 (0.0%)
All	All	0.42	0/4312	0.56	1/5821 (0.0%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	B	0	1

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)
1	B	576	ASP	N-CA-C	-7.49	90.77	111.00

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	B	576	ASP	Peptide

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	2100	0	2091	24	0
1	B	2116	0	2112	18	0
2	A	1	0	0	0	0
3	A	37	0	20	3	0
3	B	37	0	20	4	0
4	A	101	0	0	0	1
4	B	88	0	0	3	1
All	All	4480	0	4243	47	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 6.

All (47) 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:577:PRO:O	1:B:582:ARG:NH1	2.17	0.77
1:A:784:THR:O	1:A:809:ARG:NH1	2.31	0.63
1:B:791:ARG:NH1	1:B:795:CYS:O	2.32	0.62
1:A:700:MET:HE2	1:A:733:PRO:HD3	1.87	0.57
1:A:598:GLU:CD	1:A:598:GLU:H	2.08	0.56
1:A:745:ARG:NH2	1:B:798:GLU:OE1	2.40	0.55
1:B:572:LYS:HD3	3:B:901:OF4:C16	2.37	0.55
1:A:607:CYS:HB3	1:A:614:ILE:HB	1.90	0.53
1:A:578:THR:OG1	1:A:579:LEU:N	2.42	0.51
1:B:632:HIS:HB3	1:B:651:LEU:HG	1.93	0.50
1:B:630:ARG:NH2	4:B:1078:HOH:O	2.44	0.50
3:B:901:OF4:H17	3:B:901:OF4:H21	1.94	0.49
1:A:632:HIS:HB3	1:A:651:LEU:HG	1.95	0.49
1:A:700:MET:HB3	1:A:709:TYR:CE2	2.47	0.49
1:B:576:ASP:O	1:B:582:ARG:NH2	2.47	0.48
1:A:596:GLN:HE22	1:A:602:LYS:NZ	2.12	0.47
1:B:621:LYS:HE2	4:B:1057:HOH:O	2.14	0.47
3:B:901:OF4:H21	3:B:901:OF4:C17	2.45	0.46
1:A:602:LYS:HB3	1:A:618:GLU:HB3	1.96	0.46
1:B:571:VAL:HG13	1:B:614:ILE:HG23	1.97	0.46
1:A:626:ASN:HD22	1:A:683:ARG:HB3	1.80	0.46
1:B:730:THR:HG22	4:B:1087:HOH:O	2.14	0.46
1:A:613:LEU:HD12	1:A:613:LEU:HA	1.82	0.46
1:A:800:TYR:O	1:A:803:MET:HB2	2.16	0.45
1:A:558:TYR:CZ	1:A:566:LYS:HD3	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:901:0F4:O12	3:B:901:0F4:H38	2.16	0.45
3:A:902:0F4:H21	3:A:902:0F4:C17	2.47	0.44
1:B:784:THR:O	1:B:809:ARG:NH2	2.50	0.44
1:A:761:TRP:O	1:A:765:THR:HG23	2.17	0.44
3:A:902:0F4:H38	3:A:902:0F4:O12	2.18	0.43
3:A:902:0F4:H21	3:A:902:0F4:H17	1.99	0.43
1:B:823:ILE:O	1:B:827:LEU:HG	2.19	0.43
1:A:691:LEU:HD23	1:A:691:LEU:HA	1.77	0.42
1:B:579:LEU:HA	1:B:582:ARG:HB2	2.01	0.42
1:B:800:TYR:O	1:B:803:MET:HB2	2.18	0.42
1:A:784:THR:C	1:A:809:ARG:HH12	2.23	0.42
1:A:597:HIS:HB3	1:A:600:ILE:HG12	2.02	0.42
1:A:535:ARG:HA	1:A:607:CYS:SG	2.60	0.42
1:A:597:HIS:NE2	1:A:598:GLU:OE1	2.52	0.41
1:A:823:ILE:O	1:A:827:LEU:HG	2.20	0.41
1:A:827:LEU:O	1:A:831:THR:HG23	2.21	0.41
1:B:633:GLY:HA2	1:B:634:PRO:HD3	1.89	0.41
1:B:563:THR:O	1:B:564:LYS:HG3	2.20	0.41
1:B:822:LYS:HB2	1:B:822:LYS:HE3	1.96	0.41
1:A:611:ASP:HA	1:A:612:PRO:HA	1.82	0.41
1:A:619:TYR:CZ	1:A:621:LYS:HA	2.56	0.40
1:B:599:HIS:HA	1:B:694:LYS:HG2	2.04	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)
4:A:1051:HOH:O	4:B:1006:HOH:O[2_544]	2.17	0.03

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	251/297 (84%)	243 (97%)	7 (3%)	1 (0%)	36	39
1	B	253/297 (85%)	246 (97%)	5 (2%)	2 (1%)	21	20
All	All	504/594 (85%)	489 (97%)	12 (2%)	3 (1%)	27	28

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	704	VAL
1	A	563	THR
1	B	577	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	222/255 (87%)	208 (94%)	14 (6%)	20	22
1	B	224/255 (88%)	214 (96%)	10 (4%)	30	37
All	All	446/510 (88%)	422 (95%)	24 (5%)	24	29

All (24) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	544	LEU
1	A	574	LEU
1	A	578	THR
1	A	613	LEU
1	A	630	ARG
1	A	700	MET
1	A	711	ARG
1	A	743	MET
1	A	760	LEU
1	A	768	LYS
1	A	782	CYS
1	A	787	ARG
1	A	790	GLU

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Mol	Chain	Res	Type
1	A	829	LYS
1	B	542	ARG
1	B	576	ASP
1	B	621	LYS
1	B	624	ASP
1	B	626	ASN
1	B	654	SER
1	B	690	ASN
1	B	730	THR
1	B	782	CYS
1	B	829	LYS

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (5) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	596	GLN
1	A	599	HIS
1	A	626	ASN
1	B	599	HIS
1	B	658	HIS

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](#)

Of 3 ligands modelled in this entry, 1 is monoatomic - leaving 2 for Mogul analysis.

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
3	0F4	A	902	-	40,41,41	2.03	6 (15%)	55,59,59	1.93	12 (21%)
3	0F4	B	901	-	40,41,41	1.99	5 (12%)	55,59,59	2.05	11 (20%)

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
3	0F4	A	902	-	-	0/20/34/34	0/5/5/5
3	0F4	B	901	-	-	0/20/34/34	0/5/5/5

All (11) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	901	0F4	C14-N13	-3.00	1.35	1.41
3	A	902	0F4	C14-N13	-2.97	1.35	1.41
3	B	901	0F4	C9-N10	-2.90	1.35	1.41
3	A	902	0F4	C28-C26	-2.78	1.46	1.50
3	A	902	0F4	C9-N10	-2.70	1.36	1.41
3	B	901	0F4	C28-C26	-2.54	1.46	1.50
3	A	902	0F4	C26-N25	-2.00	1.34	1.36
3	A	902	0F4	O27-C26	2.88	1.28	1.23
3	B	901	0F4	O27-C26	2.96	1.29	1.23
3	B	901	0F4	C29-C28	10.26	1.49	1.34
3	A	902	0F4	C29-C28	10.48	1.49	1.34

All (23) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	B	901	0F4	C36-C24-C23	-6.20	117.08	122.43
3	A	902	0F4	C36-C24-C23	-5.34	117.82	122.43
3	B	901	0F4	C24-N25-C26	-5.04	108.39	111.39
3	A	902	0F4	C24-N25-C26	-4.94	108.45	111.39
3	B	901	0F4	C32-C31-C30	-3.67	102.58	106.20
3	A	902	0F4	C23-C28-C26	-3.39	103.28	105.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	B	901	0F4	F1-C2-C5	-3.21	105.66	112.94
3	B	901	0F4	C23-C28-C26	-3.18	103.40	105.27
3	A	902	0F4	C32-C31-C30	-2.51	103.72	106.20
3	B	901	0F4	F4-C2-C5	-2.35	107.61	112.94
3	A	902	0F4	O27-C26-C28	-2.32	124.64	127.68
3	B	901	0F4	C23-C28-C29	-2.22	121.80	132.01
3	A	902	0F4	F4-C2-C5	-2.16	108.04	112.94
3	A	902	0F4	C21-C22-C23	-2.08	117.63	120.99
3	A	902	0F4	C23-C28-C29	-2.02	122.69	132.01
3	A	902	0F4	C23-C24-N25	2.42	111.05	108.24
3	B	901	0F4	C23-C24-N25	2.49	111.13	108.24
3	A	902	0F4	C29-C28-C26	3.32	134.02	120.00
3	B	901	0F4	C29-C28-C26	3.50	134.77	120.00
3	B	901	0F4	C22-C23-C24	3.64	122.79	118.83
3	A	902	0F4	C22-C23-C24	3.91	123.08	118.83
3	B	901	0F4	C28-C26-N25	6.72	110.79	106.91
3	A	902	0F4	C28-C26-N25	7.35	111.15	106.91

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

2 monomers are involved in 7 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	902	0F4	3	0
3	B	901	0F4	4	0

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	B	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	609:ASP	C	612:PRO	N	5.54

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	263/297 (88%)	-0.15	2 (0%) 86 85	26, 43, 68, 78	0
1	B	265/297 (89%)	-0.15	0 100 100	27, 44, 71, 83	0
All	All	528/594 (88%)	-0.15	2 (0%) 92 91	26, 43, 69, 83	0

All (2) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	574	LEU	2.1
1	A	772	PHE	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, 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	B-factors(Å ²)	Q<0.9
3	0F4	B	901	37/37	0.95	0.13	31,36,42,44	0
3	0F4	A	902	37/37	0.96	0.12	31,36,42,43	0
2	CL	A	901	1/1	0.97	0.10	44,44,44,44	0

6.5 Other polymers [i](#)

There are no such residues in this entry.