



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 14, 2026 – 02:56 PM UTC

PDB ID : 2XES / pdb_00002xes
Title : Human PatL1 C-terminal domain (loop variant)
Authors : Tritschler, F.; Weichenrieder, O.
Deposited on : 2010-05-17
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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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

MolProbity : 4-5-2 with Phenix2.0
Mogul : 2022.3.0, CSD as543be (2022)
Xtriage (Phenix) : 2.0
EDS : 3.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4 : 9.0.010 (Gargrove)
Density-Fitness : 1.0.12
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

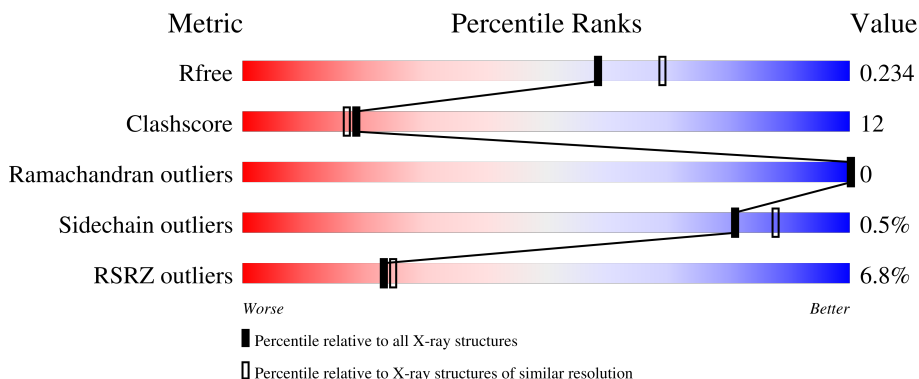
1 Overall quality at a glance

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}	180053	6658 (2.10-2.10)
Clashscore	190562	7164 (2.10-2.10)
Ramachandran outliers	187476	7099 (2.10-2.10)
Sidechain outliers	187428	7100 (2.10-2.10)
RSRZ outliers	180081	6662 (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 of the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. 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	248	 8% 73% 21% • 6%
1	B	248	 5% 75% 20% • •

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 4375 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 PROTEIN PAT1 HOMOLOG 1.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
			Total	C	N	O	S	Se			
1	A	234	1901	1216	331	343	3	8	0	2	0
1	B	238	1941	1238	340	352	3	8	0	3	0

There are 28 discrepancies between the modelled and reference sequences:

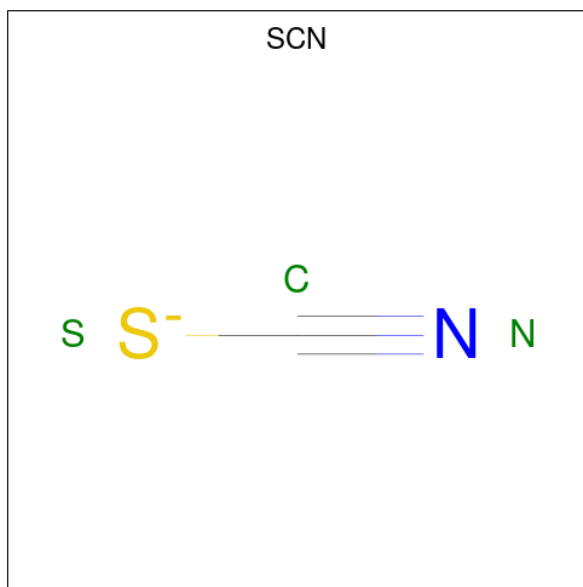
Chain	Residue	Modelled	Actual	Comment	Reference
A	512	GLY	-	expression tag	UNP Q86TB9
A	513	PRO	-	expression tag	UNP Q86TB9
A	514	GLN	-	expression tag	UNP Q86TB9
A	515	ASP	-	expression tag	UNP Q86TB9
A	516	PRO	-	expression tag	UNP Q86TB9
A	664	GLY	GLN	engineered mutation	UNP Q86TB9
A	?	-	ALA	deletion	UNP Q86TB9
A	?	-	ALA	deletion	UNP Q86TB9
A	?	-	THR	deletion	UNP Q86TB9
A	?	-	PRO	deletion	UNP Q86TB9
A	?	-	ALA	deletion	UNP Q86TB9
A	?	-	LEU	deletion	UNP Q86TB9
A	?	-	SER	deletion	UNP Q86TB9
A	?	-	ASN	deletion	UNP Q86TB9
B	512	GLY	-	expression tag	UNP Q86TB9
B	513	PRO	-	expression tag	UNP Q86TB9
B	514	GLN	-	expression tag	UNP Q86TB9
B	515	ASP	-	expression tag	UNP Q86TB9
B	516	PRO	-	expression tag	UNP Q86TB9
B	664	GLY	GLN	engineered mutation	UNP Q86TB9
B	?	-	ALA	deletion	UNP Q86TB9
B	?	-	ALA	deletion	UNP Q86TB9
B	?	-	THR	deletion	UNP Q86TB9
B	?	-	PRO	deletion	UNP Q86TB9
B	?	-	ALA	deletion	UNP Q86TB9

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Chain	Residue	Modelled	Actual	Comment	Reference
B	?	-	LEU	deletion	UNP Q86TB9
B	?	-	SER	deletion	UNP Q86TB9
B	?	-	ASN	deletion	UNP Q86TB9

- Molecule 2 is THIOCYANATE ION (CCD ID: SCN) (formula: CNS).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	
2	A	1	Total	C	N	S	0	0
			3	1	1	1		
2	A	1	Total	C	N	S	0	0
			3	1	1	1		
2	A	1	Total	C	N	S	0	0
			3	1	1	1		
2	A	1	Total	C	N	S	0	0
			3	1	1	1		

- Molecule 3 is POTASSIUM ION (CCD ID: K) (formula: K).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	1	Total	K	0	0
			1	1		
3	B	1	Total	K	0	0
			1	1		

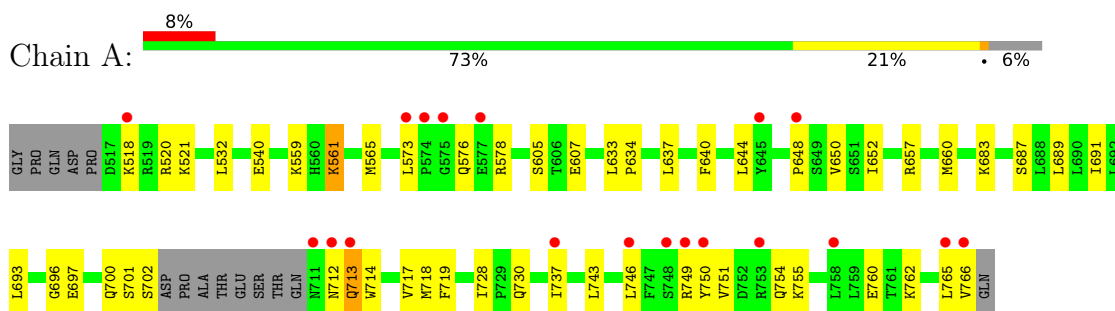
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	244	Total 244	O 244	0	0
4	B	275	Total 275	O 275	0	0

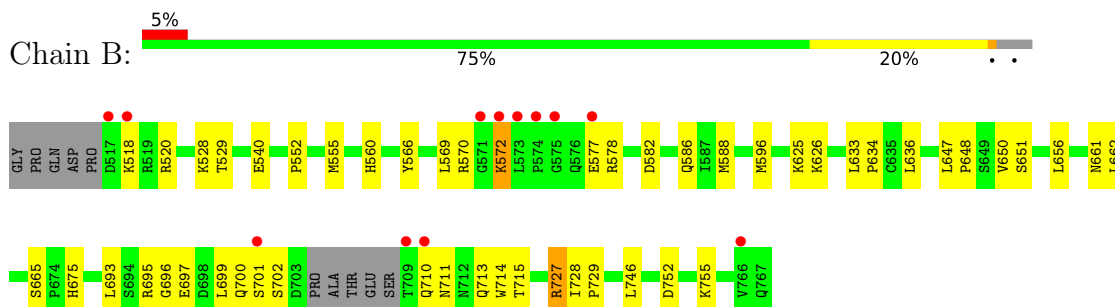
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA, DNA and oligosaccharide 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: PROTEIN PAT1 HOMOLOG 1



- Molecule 1: PROTEIN PAT1 HOMOLOG 1



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	56.65Å 70.76Å 134.04Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	67.02 – 2.10 67.02 – 2.10	Depositor EDS
% Data completeness (in resolution range)	99.3 (67.02-2.10) 99.4 (67.02-2.10)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.10	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.68 (at 2.10Å)	Xtrriage
Refinement program	PHENIX	Depositor
R, R_{free}	0.199 , 0.232 0.202 , 0.234	Depositor DCC
R_{free} test set	1600 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	26.1	Xtrriage
Anisotropy	0.484	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 41.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	4375	wwPDB-VP
Average B, all atoms (Å ²)	33.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.73% 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: SCN, K

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	0.50	1/1929 (0.1%)	0.74	0/2591
1	B	0.52	0/1974	0.78	3/2651 (0.1%)
All	All	0.51	1/3903 (0.0%)	0.76	3/5242 (0.1%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	561	LYS	C-O	-5.43	1.17	1.24

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	577	GLU	N-CA-C	8.22	119.87	111.07
1	B	727	ARG	N-CA-C	7.12	119.13	111.36
1	B	572	LYS	N-CA-C	5.24	117.91	110.10

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	1901	0	2004	45	0
1	B	1941	0	2036	51	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	A	12	0	0	0	0
3	A	1	0	0	0	0
3	B	1	0	0	0	0
4	A	244	0	0	6	0
4	B	275	0	0	13	0
All	All	4375	0	4040	94	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 12.

All (94) 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:730[B]:GLN:HG2	1:A:762:LYS:HG3	1.61	0.82
1:A:650:VAL:HG13	4:A:2140:HOH:O	1.80	0.81
1:B:675[B]:HIS:CD2	4:B:2162:HOH:O	2.43	0.72
1:A:730[B]:GLN:HG3	4:A:2208:HOH:O	1.95	0.66
1:A:701:SER:OG	1:A:749:ARG:NH2	2.29	0.65
1:A:573:LEU:HD12	1:A:573:LEU:N	2.13	0.62
1:A:660:MSE:HE1	1:A:717:VAL:O	2.00	0.61
1:B:518:LYS:NZ	1:B:586:GLN:HG3	2.18	0.59
1:A:712:ASN:OD1	1:A:713:GLN:N	2.36	0.59
1:B:570:ARG:HD3	4:B:2075:HOH:O	2.04	0.58
1:A:700:GLN:HG3	1:A:714:TRP:CD1	2.39	0.58
1:A:573:LEU:N	1:A:573:LEU:CD1	2.67	0.58
1:B:582:ASP:O	1:B:586:GLN:HG2	2.03	0.58
1:A:719:PHE:CE1	1:A:750:TYR:HB3	2.39	0.57
1:B:625:LYS:NZ	4:B:2119:HOH:O	2.36	0.57
1:B:697:GLU:O	1:B:701:SER:HB2	2.05	0.57
1:B:540:GLU:HG2	4:B:2027:HOH:O	2.04	0.57
1:A:518:LYS:O	1:A:521:LYS:N	2.38	0.56
1:B:665:SER:HB3	1:B:675[B]:HIS:CD2	2.40	0.56
1:A:650:VAL:HG11	1:B:552:PRO:HA	1.88	0.56
1:B:755:LYS:HE3	4:B:2251:HOH:O	2.06	0.56
1:B:700[A]:GLN:NE2	1:B:711:ASN:OD1	2.39	0.55
1:A:696:GLY:HA3	1:A:714:TRP:CH2	2.42	0.54
1:B:572:LYS:HB2	4:B:2077:HOH:O	2.07	0.54
1:B:588:MSE:HE1	1:B:636:LEU:HD11	1.90	0.54
1:B:518:LYS:HZ3	1:B:586:GLN:HG3	1.71	0.54
1:A:687:SER:O	1:A:691:ILE:HG12	2.07	0.53
1:B:711:ASN:O	1:B:715:THR:HG23	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:697:GLU:HB2	1:A:746:LEU:HD13	1.90	0.53
1:B:697:GLU:HB2	1:B:746:LEU:HD13	1.91	0.53
1:B:675[B]:HIS:HD2	4:B:2162:HOH:O	1.85	0.52
1:A:648:PRO:O	1:A:652:ILE:HG12	2.10	0.52
1:A:713:GLN:HB3	4:A:2150:HOH:O	2.09	0.52
1:A:751:VAL:CG1	1:A:755:LYS:HB2	2.41	0.51
1:B:572:LYS:N	4:B:2077:HOH:O	2.38	0.51
1:A:605:SER:OG	1:A:607[B]:GLU:HG2	2.11	0.51
1:A:657:ARG:NH2	1:B:555:MSE:HE2	2.27	0.50
1:B:650:VAL:HG22	1:B:710:GLN:CD	2.36	0.50
1:B:650:VAL:HG21	1:B:710:GLN:NE2	2.27	0.49
1:A:701:SER:O	1:A:702:SER:C	2.55	0.48
1:A:760:GLU:HA	1:A:765:LEU:HB2	1.95	0.48
1:B:661:ASN:C	1:B:662:LEU:HD12	2.39	0.48
1:B:700[B]:GLN:OE1	1:B:714:TRP:CE2	2.67	0.48
1:A:712:ASN:OD1	1:A:713:GLN:HG3	2.13	0.47
1:A:561:LYS:O	1:A:565:MSE:HG3	2.14	0.47
1:B:650:VAL:CG2	1:B:710:GLN:NE2	2.77	0.47
1:B:696:GLY:O	1:B:700[B]:GLN:OE1	2.33	0.47
1:A:637:LEU:HD22	1:A:737:ILE:CD1	2.45	0.47
1:B:633:LEU:N	1:B:634:PRO:CD	2.78	0.47
1:B:656:LEU:HD12	1:B:714:TRP:HZ3	1.79	0.47
1:A:633:LEU:N	1:A:634:PRO:CD	2.78	0.47
1:B:650:VAL:HG21	1:B:710:GLN:HE22	1.78	0.47
1:B:695:ARG:CZ	1:B:699:LEU:HD21	2.45	0.47
1:B:650:VAL:CG2	1:B:710:GLN:CD	2.89	0.46
1:B:727:ARG:O	1:B:727:ARG:HG2	2.15	0.46
1:B:528:LYS:HG3	4:B:2008:HOH:O	2.14	0.46
1:B:656:LEU:HD11	1:B:693:LEU:HD23	1.98	0.46
1:B:696:GLY:HA3	1:B:714:TRP:CH2	2.51	0.46
1:A:754:GLN:OE1	1:A:754:GLN:N	2.49	0.45
1:B:728:ILE:HG13	1:B:729:PRO:HD2	1.98	0.45
1:B:588:MSE:HE1	1:B:636:LEU:CD1	2.46	0.45
1:B:713:GLN:HG3	4:B:2151:HOH:O	2.17	0.45
1:A:637:LEU:HD22	1:A:737:ILE:HD12	1.97	0.45
1:B:520:ARG:HB2	4:B:2001:HOH:O	2.15	0.45
1:B:560:HIS:HB2	4:B:2060:HOH:O	2.15	0.45
1:B:661:ASN:O	1:B:662:LEU:HD12	2.16	0.45
1:A:573:LEU:O	1:A:576:GLN:HG2	2.17	0.44
1:A:683:LYS:HG3	4:A:2004:HOH:O	2.17	0.44
1:A:751:VAL:HG13	1:A:755:LYS:HB2	1.98	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:689:LEU:O	1:A:693:LEU:HG	2.17	0.43
1:B:569:LEU:HD21	1:B:596:MSE:HE2	2.00	0.43
1:A:644:LEU:HD12	1:A:691:ILE:HG22	2.00	0.43
1:A:743:LEU:HD23	1:A:743:LEU:HA	1.83	0.43
1:A:532:LEU:HD22	1:A:561:LYS:HD3	2.01	0.43
1:A:540:GLU:HG2	4:A:2026:HOH:O	2.19	0.43
1:A:750:TYR:CD1	1:A:750:TYR:N	2.83	0.43
1:B:566:TYR:CE2	1:B:570:ARG:HD2	2.55	0.42
1:B:752:ASP:OD1	1:B:752:ASP:C	2.62	0.42
1:A:520:ARG:HB3	1:A:520:ARG:CZ	2.50	0.42
1:A:728:ILE:O	1:A:762:LYS:HE2	2.19	0.42
1:A:559:LYS:HG3	4:A:2062:HOH:O	2.19	0.42
1:B:647:LEU:HA	1:B:648:PRO:HD3	1.82	0.42
1:B:626:LYS:HD3	1:B:626:LYS:HA	1.88	0.41
1:A:644:LEU:HD12	1:A:691:ILE:CG2	2.49	0.41
1:B:578:ARG:HB2	4:B:2082:HOH:O	2.20	0.41
1:A:578:ARG:HA	1:A:578:ARG:HD2	1.86	0.41
1:A:640:PHE:O	1:A:644:LEU:HG	2.19	0.41
1:B:693:LEU:HB3	1:B:746:LEU:CD2	2.51	0.41
1:A:714:TRP:CZ2	1:A:718:MSE:SE	3.23	0.41
1:A:573:LEU:CD1	1:A:573:LEU:H	2.33	0.40
1:B:529:THR:CG2	1:B:596:MSE:HE3	2.52	0.40
1:B:648:PRO:HD2	1:B:651:SER:HB2	2.03	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	232/248 (94%)	229 (99%)	3 (1%)	0	100	100
1	B	237/248 (96%)	235 (99%)	2 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
All	All	469/496 (95%)	464 (99%)	5 (1%)	0	100	100

There are no Ramachandran outliers to report.

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	219/221 (99%)	217 (99%)	2 (1%)	70	78
1	B	224/221 (101%)	224 (100%)	0	100	100
All	All	443/442 (100%)	441 (100%)	2 (0%)	81	88

All (2) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	713	GLN
1	A	766	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	Res	Type
1	B	681	GLN
1	B	710	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 oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 6 ligands modelled in this entry, 2 are monoatomic - leaving 4 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	$\# Z > 2$
2	SCN	A	1770	-	1,2,2	0.93	0	0,1,1	-	-
2	SCN	A	1767	-	1,2,2	0.83	0	0,1,1	-	-
2	SCN	A	1768	-	1,2,2	0.99	0	0,1,1	-	-
2	SCN	A	1769	-	1,2,2	0.82	0	0,1,1	-	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

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, 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	226/248 (91%)	0.44	19 (8%) 17 18	18, 32, 58, 68	2 (0%)
1	B	230/248 (92%)	0.23	12 (5%) 33 35	17, 28, 51, 69	3 (1%)
All	All	456/496 (91%)	0.33	31 (6%) 23 25	17, 30, 57, 69	5 (1%)

All (31) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	766	VAL	6.0
1	B	710	GLN	4.7
1	B	577	GLU	4.1
1	B	575	GLY	3.7
1	A	645	TYR	3.2
1	A	712	ASN	3.1
1	A	573	LEU	3.1
1	A	746	LEU	2.9
1	A	577	GLU	2.8
1	A	748	SER	2.8
1	B	701	SER	2.8
1	B	709	THR	2.7
1	B	573	LEU	2.6
1	A	753	ARG	2.5
1	A	711	ASN	2.5
1	B	572	LYS	2.5
1	A	575	GLY	2.5
1	B	574	PRO	2.4
1	A	765	LEU	2.4
1	A	737	ILE	2.4
1	A	574	PRO	2.4
1	A	518	LYS	2.3
1	A	749	ARG	2.3
1	A	713	GLN	2.2

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Mol	Chain	Res	Type	RSRZ
1	B	518	LYS	2.2
1	A	750	TYR	2.1
1	A	648	PRO	2.1
1	B	517	ASP	2.0
1	B	571	GLY	2.0
1	B	766	VAL	2.0
1	A	758	LEU	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 oligosaccharides 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(\AA^2)	Q<0.9
2	SCN	A	1770	3/3	0.80	0.18	29,29,34,50	0
3	K	A	1771	1/1	0.87	0.20	54,54,54,54	0
2	SCN	A	1767	3/3	0.96	0.08	26,26,29,30	0
2	SCN	A	1768	3/3	0.96	0.10	26,26,30,34	0
2	SCN	A	1769	3/3	0.97	0.13	31,31,33,35	0
3	K	B	1767	1/1	0.97	0.10	44,44,44,44	0

6.5 Other polymers [i](#)

There are no such residues in this entry.