



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 14, 2018 – 01:02 am GMT

PDB ID : 5WG4
Title : Human GRK2 in complex with Gbetagamma subunits and CCG257284
Authors : Bouley, R.; Tesmer, J.J.G.
Deposited on : 2017-07-13
Resolution : 2.31 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
Mogul : 1.7.3 (157068), CSD as539be (2018)
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

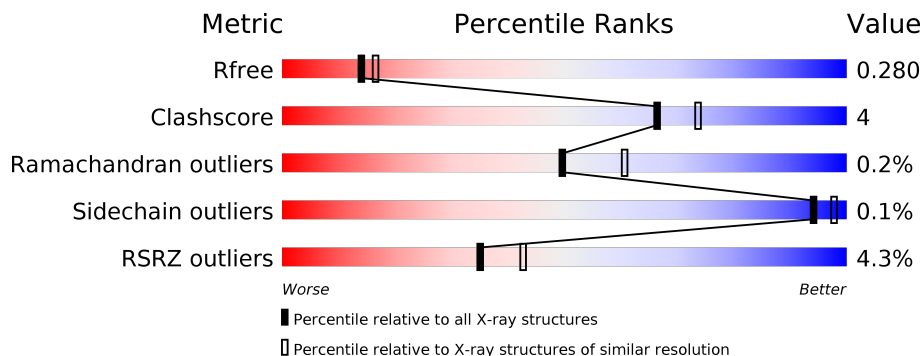
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.31 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	5225 (2.34-2.30)
Clashscore	122126	5849 (2.34-2.30)
Ramachandran outliers	120053	5790 (2.34-2.30)
Sidechain outliers	120020	5789 (2.34-2.30)
RSRZ outliers	108989	5109 (2.34-2.30)

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	689	 6% (poor fit), 79% (0-1 outliers), 11% (2 outliers), 10% (3+ outliers or not modelled)
2	B	340	 90% (0-1 outliers), 10% (2+ outliers or not modelled)
3	G	71	 % (poor fit), 76% (0-1 outliers), 7% (2 outliers), 17% (3+ outliers or not modelled)

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 8326 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 Beta-adrenergic receptor kinase 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	621	5082	3240	889	919	34	0	0	0

- Molecule 2 is a protein called Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	B	339	2613	1610	469	512	22	0	1	0

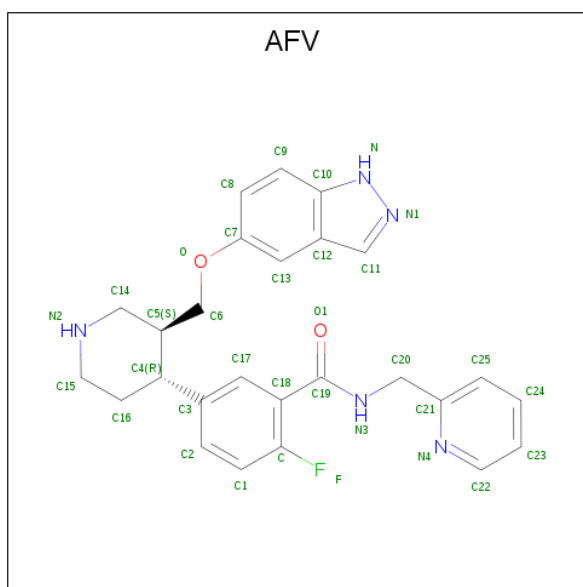
- Molecule 3 is a protein called Guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
3	G	59	454	284	80	87	3	0	0	0

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
G	68	SER	CYS	engineered mutation	UNP P63212

- Molecule 4 is 2-fluoro-5-[(3S,4R)-3-[[[(1H-indazol-5-yl)oxy]methyl]piperidin-4-yl]-N-[(pyridin-2-yl)methyl]benzamide (three-letter code: AFV) (formula: C₂₆H₂₆FN₅O₂).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	F	N	O		
4	A	1	34	26	1	5	2	0	0

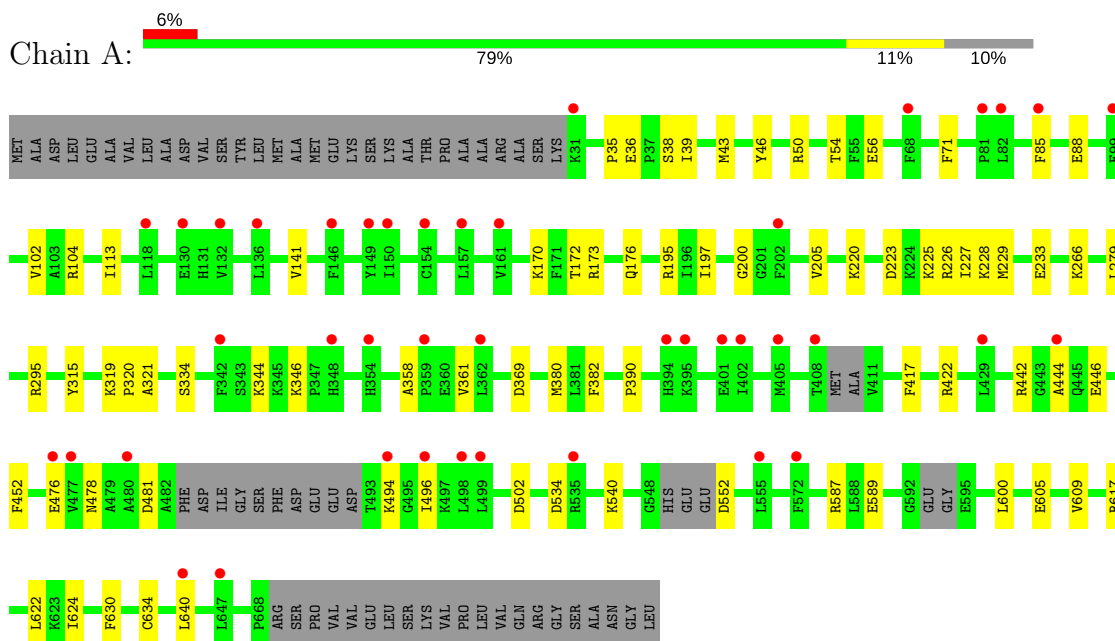
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	83	Total	O	0	0
			83	83		
5	B	54	Total	O	0	0
			54	54		
5	G	6	Total	O	0	0
			6	6		

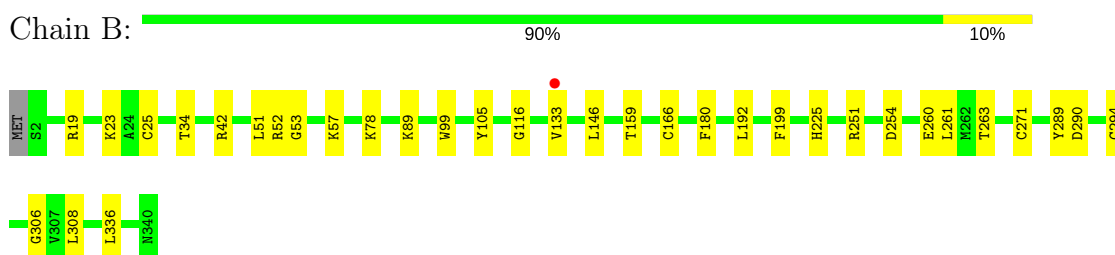
3 Residue-property plots [i](#)

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.

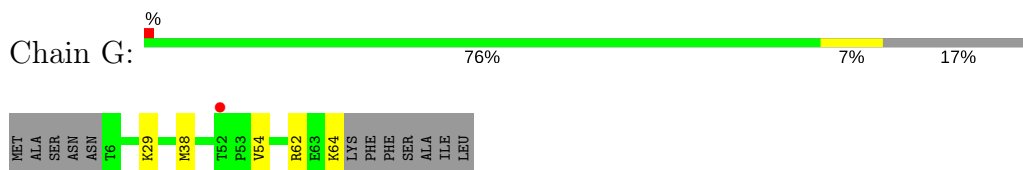
- Molecule 1: Beta-adrenergic receptor kinase 1



- Molecule 2: Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-1



- Molecule 3: Guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-2



4 Data and refinement statistics

Property	Value	Source
Space group	C 2 2 21	Depositor
Cell constants a, b, c, α , β , γ	61.15Å 241.44Å 214.84Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	19.96 – 2.31 59.27 – 2.31	Depositor EDS
% Data completeness (in resolution range)	98.2 (19.96-2.31) 82.6 (59.27-2.31)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.06	Depositor
$\langle I/\sigma(I) \rangle$ ¹	0.76 (at 2.32Å)	Xtrriage
Refinement program	PHENIX (1.10.1_2155: ???)	Depositor
R, R_{free}	0.234 , 0.279 0.235 , 0.280	Depositor DCC
R_{free} test set	1997 reflections (2.85%)	wwPDB-VP
Wilson B-factor (Å ²)	35.2	Xtrriage
Anisotropy	0.611	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.31 , 41.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	8326	wwPDB-VP
Average B, all atoms (Å ²)	77.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.99% 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

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: AFV

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	0.24	0/5194	0.40	0/6978
2	B	0.25	0/2660	0.48	0/3605
3	G	0.23	0/460	0.38	0/620
All	All	0.24	0/8314	0.43	0/11203

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts

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	5082	0	5074	48	0
2	B	2613	0	2514	19	0
3	G	454	0	467	4	0
4	A	34	0	0	1	0
5	A	83	0	0	3	0
5	B	54	0	0	2	0
5	G	6	0	0	0	0
All	All	8326	0	8055	69	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 (69) 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:229:MET:HB2	1:A:494:LYS:HZ2	1.30	0.94
2:B:271[B]:CYS:HB3	2:B:290:ASP:HB3	1.76	0.68
1:A:229:MET:HB2	1:A:494:LYS:NZ	2.08	0.67
1:A:494:LYS:HE3	1:A:496:ILE:HB	1.77	0.66
2:B:271[A]:CYS:HB2	2:B:290:ASP:HB3	1.77	0.65
1:A:36:GLU:OE1	1:A:540:LYS:NZ	2.31	0.63
1:A:587:ARG:HD2	1:A:600:LEU:HD22	1.82	0.62
2:B:52:ARG:O	2:B:89:LYS:NZ	2.33	0.62
1:A:634:CYS:HB2	1:A:640:LEU:HG	1.84	0.60
2:B:294:CYS:HB3	2:B:308:LEU:HB2	1.85	0.58
1:A:315:TYR:OH	1:A:334:SER:O	2.12	0.57
1:A:319:LYS:HE3	1:A:321:ALA:HB3	1.85	0.57
1:A:587:ARG:NE	1:A:589:GLU:OE2	2.30	0.56
2:B:254:ASP:HB2	2:B:261:LEU:HD11	1.89	0.55
2:B:57:LYS:NZ	5:B:403:HOH:O	2.32	0.55
1:A:442:ARG:HB2	1:A:446:GLU:HG3	1.89	0.54
2:B:166:CYS:HB2	2:B:180:PHE:HB2	1.90	0.53
2:B:192:LEU:HD23	2:B:199:PHE:HB3	1.90	0.53
1:A:35:PRO:O	1:A:176:GLN:NE2	2.35	0.53
1:A:200:GLY:HA3	4:A:701:AFV:C18	2.39	0.52
1:A:295:ARG:NH1	1:A:452:PHE:O	2.43	0.52
2:B:51:LEU:HB2	2:B:336:LEU:HB2	1.91	0.52
2:B:19:ARG:HH21	2:B:23:LYS:HZ1	1.56	0.52
1:A:39:ILE:HG13	1:A:43:MET:HG2	1.92	0.51
2:B:225:HIS:CE1	2:B:251:ARG:HG3	2.45	0.51
3:G:54:VAL:O	3:G:62:ARG:NH1	2.44	0.51
1:A:605:GLU:HB3	1:A:624:ILE:HG23	1.92	0.51
2:B:146:LEU:HD11	2:B:159:THR:HB	1.92	0.50
1:A:173:ARG:NH2	1:A:534:ASP:OD1	2.41	0.50
1:A:228:LYS:HE2	1:A:502:ASP:HB3	1.92	0.50
1:A:622:LEU:HB2	1:A:630:PHE:HB3	1.94	0.49
1:A:195:ARG:HH21	1:A:476:GLU:HG2	1.77	0.49
2:B:34:THR:HA	3:G:38:MET:HE2	1.95	0.48
1:A:54:THR:HG22	1:A:56:GLU:H	1.77	0.48
1:A:225:LYS:HB3	1:A:494:LYS:HE2	1.95	0.48
1:A:358:ALA:HB3	1:A:361:VAL:HG23	1.94	0.48
1:A:71:PHE:HB2	1:A:170:LYS:HG3	1.96	0.47
1:A:617:ARG:NH2	1:A:634:CYS:O	2.47	0.47
2:B:260:GLU:OE2	2:B:263:THR:OG1	2.31	0.47
1:A:88:GLU:OE1	1:A:104:ARG:NH2	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:609:VAL:HG22	1:A:622:LEU:HD22	1.97	0.45
1:A:478:ASN:ND2	1:A:481:ASP:OD2	2.36	0.45
1:A:172:THR:O	1:A:176:GLN:HG3	2.17	0.45
1:A:223:ASP:HB2	1:A:266:LYS:NZ	2.32	0.45
1:A:552:ASP:N	5:A:826:HOH:O	2.49	0.45
2:B:78:LYS:NZ	5:B:407:HOH:O	2.40	0.45
1:A:225:LYS:O	1:A:494:LYS:NZ	2.43	0.44
1:A:85:PHE:CZ	1:A:113:ILE:HD11	2.53	0.44
1:A:104:ARG:HD2	1:A:104:ARG:HA	1.86	0.44
1:A:38:SER:O	5:A:801:HOH:O	2.20	0.44
1:A:102:VAL:HG13	1:A:141:VAL:HG21	2.00	0.43
1:A:344:LYS:HD3	1:A:344:LYS:HA	1.71	0.43
1:A:382:PHE:CG	1:A:390:PRO:HG3	2.54	0.43
2:B:99:TRP:O	2:B:116:GLY:HA3	2.19	0.43
1:A:417:PHE:O	1:A:422:ARG:NH2	2.52	0.42
1:A:197:ILE:HA	1:A:476:GLU:HG3	2.00	0.42
1:A:444:ALA:N	5:A:828:HOH:O	2.53	0.42
1:A:205:VAL:HG22	1:A:220:LYS:HA	2.03	0.41
2:B:42:ARG:HH21	2:B:306:GLY:HA2	1.86	0.41
2:B:25:CYS:HA	3:G:29:LYS:HD3	2.02	0.41
1:A:227:ILE:HG22	1:A:233:GLU:HG3	2.01	0.41
1:A:320:PRO:HD3	1:A:380:MET:HG3	2.03	0.41
1:A:195:ARG:NH2	1:A:476:GLU:HG2	2.35	0.41
2:B:271[A]:CYS:SG	2:B:289:TYR:HB3	2.61	0.41
3:G:64:LYS:HB2	3:G:64:LYS:HE3	1.85	0.41
1:A:346:LYS:HD2	1:A:369:ASP:HB3	2.03	0.40
1:A:279:LEU:HD23	1:A:279:LEU:HA	1.94	0.40
1:A:223:ASP:OD2	1:A:226:ARG:HG3	2.22	0.40
1:A:46:TYR:O	1:A:50:ARG:NH2	2.53	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	611/689 (89%)	587 (96%)	24 (4%)	0	100	100
2	B	338/340 (99%)	321 (95%)	15 (4%)	2 (1%)	27	32
3	G	57/71 (80%)	54 (95%)	3 (5%)	0	100	100
All	All	1006/1100 (92%)	962 (96%)	42 (4%)	2 (0%)	49	61

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	B	133	VAL
2	B	53	GLY

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	555/609 (91%)	555 (100%)	0	100	100
2	B	283/283 (100%)	282 (100%)	1 (0%)	92	96
3	G	48/58 (83%)	48 (100%)	0	100	100
All	All	886/950 (93%)	885 (100%)	1 (0%)	94	98

All (1) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	B	105	TYR

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

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](#)

1 ligand is 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
4	AFV	A	701	-	35,38,38	3.69	18 (51%)	43,52,52	1.80	10 (23%)

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
4	AFV	A	701	-	-	0/18/29/29	0/5/5/5

All (18) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	701	AFV	C18-C	-4.65	1.31	1.38
4	A	701	AFV	C17-C3	-4.15	1.32	1.39
4	A	701	AFV	C23-C24	-4.03	1.28	1.38
4	A	701	AFV	C2-C1	-3.73	1.32	1.38
4	A	701	AFV	C14-N2	-3.15	1.41	1.46
4	A	701	AFV	C25-C21	-3.04	1.32	1.38
4	A	701	AFV	C9-C10	-2.76	1.37	1.41
4	A	701	AFV	C22-N4	-2.74	1.28	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	701	AFV	C11-N1	-2.44	1.25	1.33
4	A	701	AFV	O1-C19	-2.08	1.19	1.23
4	A	701	AFV	C13-C7	2.07	1.40	1.37
4	A	701	AFV	C23-C22	4.99	1.52	1.37
4	A	701	AFV	C19-N3	5.37	1.45	1.33
4	A	701	AFV	C24-C25	5.57	1.49	1.38
4	A	701	AFV	C21-N4	6.81	1.49	1.34
4	A	701	AFV	C1-C	7.48	1.53	1.37
4	A	701	AFV	C17-C18	8.48	1.53	1.39
4	A	701	AFV	C2-C3	8.52	1.53	1.39

All (10) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	A	701	AFV	C3-C4-C5	-3.00	108.28	114.05
4	A	701	AFV	C16-C4-C3	-2.95	107.46	112.82
4	A	701	AFV	C1-C-C18	-2.84	119.86	123.11
4	A	701	AFV	C-C18-C19	-2.24	120.02	125.11
4	A	701	AFV	C23-C22-N4	-2.13	119.92	123.43
4	A	701	AFV	C17-C18-C	2.77	120.26	116.82
4	A	701	AFV	C9-C10-N	3.28	135.57	130.19
4	A	701	AFV	C16-C4-C5	3.55	113.93	109.64
4	A	701	AFV	C12-C11-N1	4.24	122.13	111.32
4	A	701	AFV	C15-C16-C4	4.28	114.99	111.42

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
4	A	701	AFV	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

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	621/689 (90%)	0.61	42 (6%) 17 23	35, 80, 133, 176	0
2	B	339/340 (99%)	0.36	1 (0%) 93 96	41, 59, 90, 164	0
3	G	59/71 (83%)	0.28	1 (1%) 70 76	49, 68, 124, 149	0
All	All	1019/1100 (92%)	0.51	44 (4%) 35 43	35, 72, 128, 176	0

All (44) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	476	GLU	7.5
1	A	477	VAL	5.4
1	A	342	PHE	5.3
1	A	498	LEU	4.4
1	A	150	ILE	4.3
1	A	494	LYS	4.3
1	A	362	LEU	3.6
1	A	402	ILE	3.6
1	A	496	ILE	3.6
1	A	359	PRO	3.2
1	A	405	MET	3.2
1	A	82	LEU	3.2
1	A	640	LEU	2.8
1	A	68	PHE	2.8
1	A	146	PHE	2.8
1	A	395	LYS	2.7
1	A	394	HIS	2.7
1	A	85	PHE	2.6
1	A	130	GLU	2.6
1	A	161	VAL	2.5
2	B	133	VAL	2.5
1	A	555	LEU	2.5
1	A	202	PHE	2.4

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Mol	Chain	Res	Type	RSRZ
1	A	99	GLU	2.4
1	A	149	TYR	2.4
1	A	354	HIS	2.3
1	A	348	HIS	2.3
1	A	572	PHE	2.3
1	A	429	LEU	2.2
1	A	154	CYS	2.2
1	A	81	PRO	2.2
1	A	444	ALA	2.2
3	G	52	THR	2.2
1	A	408	THR	2.2
1	A	401	GLU	2.1
1	A	499	LEU	2.1
1	A	31	LYS	2.1
1	A	118	LEU	2.1
1	A	647	LEU	2.1
1	A	535	ARG	2.1
1	A	132	VAL	2.1
1	A	157	LEU	2.1
1	A	136	LEU	2.0
1	A	480	ALA	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. 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
4	AFV	A	701	34/34	0.96	0.16	41,72,101,102	0

6.5 Other polymers [i](#)

There are no such residues in this entry.