



Full wwPDB X-ray Structure Validation Report ⓘ

Nov 5, 2023 – 08:12 AM EST

PDB ID : 4PPK
Title : Crystal structure of eCGP123 T69V variant at pH 7.5
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Deposited on : 2014-02-27
Resolution : 2.00 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 : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.36
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.36

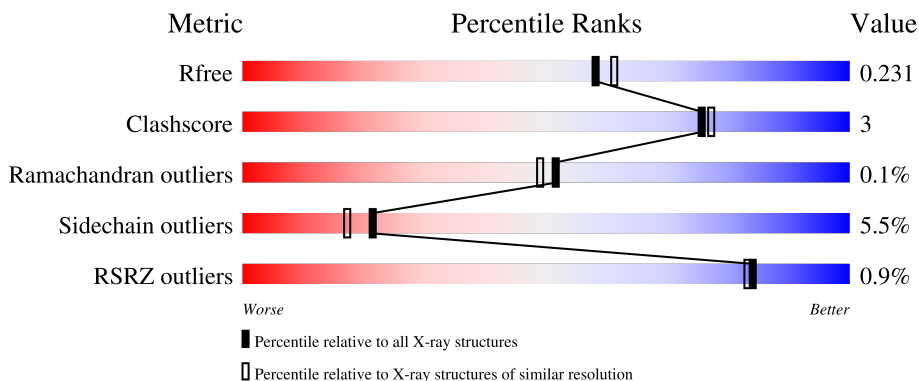
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.00 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}	130704	8085 (2.00-2.00)
Clashscore	141614	9178 (2.00-2.00)
Ramachandran outliers	138981	9054 (2.00-2.00)
Sidechain outliers	138945	9053 (2.00-2.00)
RSRZ outliers	127900	7900 (2.00-2.00)

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	245	 79% 9% 11%
1	B	245	 77% 10% 13%
1	C	245	 2% 76% 12% • 11%
1	D	245	 % 77% 10% • 12%

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 7716 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 Monomeric Azami Green.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	217	Total 1792	C 1154	N 298	O 329	S 11	0	3	0
1	B	214	Total 1751	C 1124	N 292	O 325	S 10	0	0	0
1	C	218	Total 1815	C 1165	N 304	O 335	S 11	0	4	0
1	D	215	Total 1777	C 1139	N 299	O 329	S 10	0	2	0


- Molecule 2 is water.

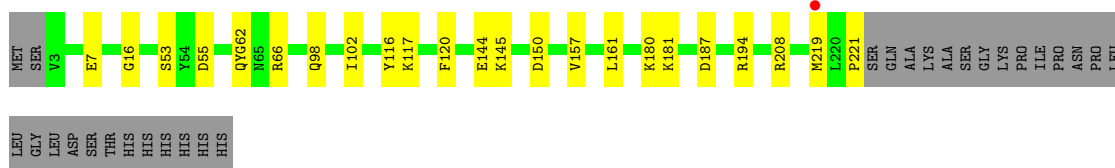
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	164	Total 164	O 164	0	0
2	B	127	Total 127	O 127	0	0
2	C	138	Total 138	O 138	0	0
2	D	152	Total 152	O 152	0	0

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.

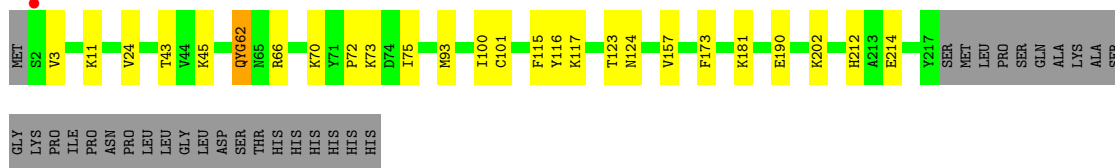
- Molecule 1: Monomeric Azami Green

Chain A: 




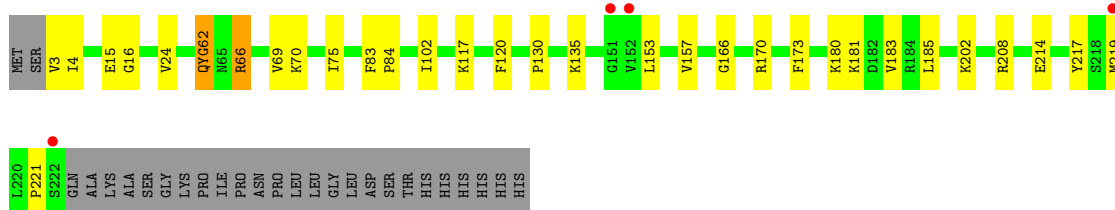
- Molecule 1: Monomeric Azami Green

Chain B: 




- Molecule 1: Monomeric Azami Green

Chain C: 



- Molecule 1: Monomeric Azami Green

Chain D: 



SER
GLN
ALA
LYS
LYS
ALA
SER
GLY
LYS
PRO
ILE
PRO
ASN
PRO
LEU
LEU
GLY
LEU
ASP
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4 Data and refinement statistics i

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	72.98Å 81.33Å 73.93Å 90.00° 107.64° 90.00°	Depositor
Resolution (Å)	38.26 – 2.00 38.26 – 2.00	Depositor EDS
% Data completeness (in resolution range)	98.7 (38.26-2.00) 98.7 (38.26-2.00)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.08 (at 2.00Å)	Xtrriage
Refinement program	REFMAC 5.5.0102, BUSTER 2.10.0	Depositor
R, R_{free}	0.194 , 0.259 0.203 , 0.231	Depositor DCC
R_{free} test set	2752 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	28.5	Xtrriage
Anisotropy	0.163	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.31 , 44.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.42$, $\langle L^2 \rangle = 0.25$	Xtrriage
Estimated twinning fraction	0.055 for l,-k,h	Xtrriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	7716	wwPDB-VP
Average B, all atoms (Å ²)	38.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 11.60% 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: CRQ

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	0.48	0/1823	0.74	0/2455
1	B	0.46	0/1772	0.71	0/2388
1	C	0.42	0/1840	0.67	0/2477
1	D	0.43	0/1798	0.69	0/2421
All	All	0.45	0/7233	0.70	0/9741

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 [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	1792	0	1760	8	0
1	B	1751	0	1699	12	0
1	C	1815	0	1773	16	0
1	D	1777	0	1728	14	0
2	A	164	0	0	1	0
2	B	127	0	0	0	0
2	C	138	0	0	1	0
2	D	152	0	0	0	0
All	All	7716	0	6960	44	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 3.

All (44) 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:C:62:CRQ:C2	1:C:66:ARG:HH22	2.05	0.69
1:A:102:ILE:HD11	1:B:100:ILE:HG22	1.74	0.69
1:B:123:THR:HG23	1:B:124:ASN:HD22	1.59	0.67
1:C:70:LYS:HB3	1:C:214:GLU:HG2	1.84	0.59
1:A:16:GLY:HA3	1:A:120:PHE:O	2.03	0.59
1:D:62:CRQ:C2	1:D:66:ARG:HH22	2.19	0.56
1:C:16:GLY:HA3	1:C:120:PHE:O	2.07	0.55
1:A:102:ILE:HG12	1:B:123:THR:HG22	1.91	0.53
1:A:221:PRO:HD2	1:D:212:HIS:HE1	1.75	0.52
1:B:72:PRO:HD2	1:B:75:ILE:HD12	1.91	0.51
1:A:102:ILE:HG12	1:B:123:THR:CG2	2.41	0.51
1:C:75:ILE:HG12	1:C:217:TYR:CE1	2.48	0.49
1:C:157:VAL:HG13	1:C:173:PHE:HB2	1.95	0.48
1:D:55:ASP:HB3	1:D:161:LEU:HD21	1.96	0.47
1:C:62:CRQ:CA2	1:C:66:ARG:HH22	2.27	0.46
1:B:11:LYS:O	1:B:115:PHE:HA	2.15	0.46
1:C:4:ILE:HD11	1:C:83:PHE:HB2	1.97	0.46
1:D:157:VAL:HG13	1:D:173:PHE:HB2	1.98	0.46
1:B:212:HIS:HE1	1:C:221:PRO:HD2	1.82	0.45
1:D:136:THR:HB	1:D:161:LEU:HD22	1.99	0.45
1:D:62:CRQ:CA2	1:D:66:ARG:HH22	2.30	0.45
1:D:66:ARG:HG2	1:D:79:PHE:CE1	2.53	0.44
1:C:66:ARG:NH2	2:C:310:HOH:O	2.50	0.44
1:B:24:VAL:HG12	1:B:45:LYS:HB2	1.99	0.44
1:C:130:PRO:HA	1:C:135:LYS:HE3	1.99	0.44
1:C:102:ILE:HD11	1:D:100:ILE:HG22	1.99	0.44
1:D:24:VAL:HB	1:D:46:GLU:HB2	1.99	0.44
1:A:98:GLN:HA	2:A:347:HOH:O	2.17	0.44
1:C:15:GLU:HG3	1:C:24:VAL:HG22	2.00	0.43
1:B:93:MET:HB2	1:B:101:CYS:HB2	1.99	0.43
1:C:62:CRQ:HD2	1:C:62:CRQ:N2	2.32	0.43
1:D:27:GLY:HA3	1:D:42:LEU:HD23	2.01	0.43
1:B:70:LYS:HB3	1:B:214:GLU:HG2	2.00	0.42
1:B:62:CRQ:HD2	1:B:62:CRQ:N2	2.34	0.42
1:D:43:THR:HA	1:D:205:ASN:O	2.20	0.42
1:C:157:VAL:CG1	1:C:173:PHE:HB2	2.50	0.41
1:B:157:VAL:HG13	1:B:173:PHE:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:144:GLU:HA	1:A:157:VAL:HB	2.03	0.41
1:D:15:GLU:HG3	1:D:24:VAL:HG22	2.01	0.41
1:A:55:ASP:HB3	1:A:161:LEU:HD21	2.03	0.41
1:C:3:VAL:HG11	1:C:84:PRO:HD3	2.02	0.41
1:C:66:ARG:HG3	1:C:69:VAL:HG21	2.03	0.41
1:D:75:ILE:HG12	1:D:217:TYR:CZ	2.56	0.40
1:D:62:CRQ:N2	1:D:62:CRQ:HD2	2.36	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	215/245 (88%)	213 (99%)	2 (1%)	0	100	100
1	B	209/245 (85%)	205 (98%)	4 (2%)	0	100	100
1	C	217/245 (89%)	211 (97%)	5 (2%)	1 (0%)	29	23
1	D	212/245 (86%)	212 (100%)	0	0	100	100
All	All	853/980 (87%)	841 (99%)	11 (1%)	1 (0%)	51	49

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	C	166	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	191/212 (90%)	177 (93%)	14 (7%)	14	9
1	B	185/212 (87%)	176 (95%)	9 (5%)	25	21
1	C	193/212 (91%)	182 (94%)	11 (6%)	20	16
1	D	188/212 (89%)	180 (96%)	8 (4%)	29	26
All	All	757/848 (89%)	715 (94%)	42 (6%)	21	17

All (42) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	7	GLU
1	A	53	SER
1	A	66	ARG
1	A	116	TYR
1	A	117	LYS
1	A	145[A]	LYS
1	A	145[B]	LYS
1	A	150	ASP
1	A	180	LYS
1	A	181	LYS
1	A	187	ASP
1	A	194	ARG
1	A	208	ARG
1	A	219	MET
1	B	3	VAL
1	B	43	THR
1	B	66	ARG
1	B	73	LYS
1	B	116	TYR
1	B	117	LYS
1	B	181	LYS
1	B	190	GLU
1	B	202	LYS
1	C	66	ARG
1	C	117	LYS
1	C	153	LEU
1	C	170	ARG
1	C	180	LYS
1	C	181	LYS
1	C	183	VAL

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Mol	Chain	Res	Type
1	C	185	LEU
1	C	202	LYS
1	C	208	ARG
1	C	219	MET
1	D	66	ARG
1	D	69	VAL
1	D	73	LYS
1	D	116	TYR
1	D	117	LYS
1	D	134	LYS
1	D	150	ASP
1	D	181	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (4) such sidechains are listed below:

Mol	Chain	Res	Type
1	B	124	ASN
1	B	158	ASN
1	B	212	HIS
1	D	158	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](#)

4 non-standard protein/DNA/RNA residues 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
1	CRQ	D	62	1	24,25,26	4.16	6 (25%)	27,34,36	2.89	6 (22%)
1	CRQ	B	62	1	24,25,26	4.02	5 (20%)	27,34,36	2.77	7 (25%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	CRQ	C	62	1	24,25,26	4.07	6 (25%)	27,34,36	3.10	7 (25%)
1	CRQ	A	62	1	24,25,26	4.06	6 (25%)	27,34,36	3.36	7 (25%)

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
1	CRQ	D	62	1	-	1/10/32/33	0/2/2/2
1	CRQ	B	62	1	-	1/10/32/33	0/2/2/2
1	CRQ	C	62	1	-	3/10/32/33	0/2/2/2
1	CRQ	A	62	1	-	1/10/32/33	0/2/2/2

All (23) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	62	CRQ	CA2-C2	-12.55	1.36	1.48
1	C	62	CRQ	CA2-C2	-12.15	1.36	1.48
1	B	62	CRQ	CA2-C2	-11.83	1.37	1.48
1	A	62	CRQ	CA2-C2	-11.71	1.37	1.48
1	B	62	CRQ	CA1-N1	9.27	1.49	1.27
1	A	62	CRQ	CA1-N1	9.26	1.49	1.27
1	D	62	CRQ	CA1-N1	9.20	1.49	1.27
1	C	62	CRQ	CD3-NE1	-9.18	1.02	1.32
1	A	62	CRQ	CD3-NE1	-9.12	1.03	1.32
1	C	62	CRQ	CA1-N1	9.12	1.49	1.27
1	D	62	CRQ	CD3-NE1	-9.11	1.03	1.32
1	B	62	CRQ	CD3-NE1	-8.91	1.03	1.32
1	A	62	CRQ	CG2-CB2	-5.90	1.35	1.46
1	D	62	CRQ	CG2-CB2	-5.73	1.35	1.46
1	D	62	CRQ	O2-C2	5.68	1.35	1.23
1	B	62	CRQ	O2-C2	5.67	1.35	1.23
1	C	62	CRQ	O2-C2	5.39	1.34	1.23
1	C	62	CRQ	CG2-CB2	-5.34	1.36	1.46
1	B	62	CRQ	CG2-CB2	-5.29	1.36	1.46
1	A	62	CRQ	O2-C2	4.78	1.33	1.23
1	A	62	CRQ	C1-N3	-2.59	1.34	1.38
1	C	62	CRQ	CB2-CA2	2.21	1.37	1.35
1	D	62	CRQ	CE1-CD1	-2.04	1.35	1.38

All (27) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	62	CRQ	CA2-C2-N3	12.70	109.37	103.37
1	C	62	CRQ	CA2-C2-N3	11.33	108.73	103.37
1	B	62	CRQ	CA2-C2-N3	10.81	108.48	103.37
1	D	62	CRQ	CA2-C2-N3	9.91	108.06	103.37
1	A	62	CRQ	O2-C2-CA2	-9.39	125.69	130.96
1	C	62	CRQ	O2-C2-CA2	-8.83	126.00	130.96
1	D	62	CRQ	O2-C2-CA2	-8.55	126.16	130.96
1	B	62	CRQ	O2-C2-CA2	-6.06	127.56	130.96
1	A	62	CRQ	C2-CA2-N2	-3.78	106.29	108.93
1	D	62	CRQ	N3-C1-N2	-3.71	108.38	113.28
1	D	62	CRQ	O3-C3-CA3	-3.60	115.52	126.39
1	C	62	CRQ	O3-C3-CA3	-3.40	116.11	126.39
1	C	62	CRQ	N3-C1-N2	-3.40	108.79	113.28
1	B	62	CRQ	N3-C1-N2	-3.26	108.98	113.28
1	B	62	CRQ	O3-C3-CA3	-3.02	117.26	126.39
1	C	62	CRQ	C2-CA2-N2	-2.99	106.84	108.93
1	B	62	CRQ	CB2-CA2-C2	2.86	125.69	122.28
1	A	62	CRQ	O3-C3-CA3	-2.82	117.87	126.39
1	B	62	CRQ	C2-CA2-N2	-2.78	106.99	108.93
1	C	62	CRQ	CA2-N2-C1	2.24	108.43	104.33
1	A	62	CRQ	CA2-N2-C1	2.20	108.35	104.33
1	A	62	CRQ	N3-C1-N2	-2.19	110.38	113.28
1	B	62	CRQ	CA2-N2-C1	2.17	108.30	104.33
1	A	62	CRQ	CA3-N3-C2	2.14	128.70	123.80
1	D	62	CRQ	CA2-N2-C1	2.13	108.24	104.33
1	C	62	CRQ	CB2-CA2-C2	2.13	124.82	122.28
1	D	62	CRQ	C2-CA2-N2	-2.01	107.53	108.93

There are no chirality outliers.

All (6) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	A	62	CRQ	C3-CA3-N3-C2
1	C	62	CRQ	C3-CA3-N3-C2
1	B	62	CRQ	C3-CA3-N3-C2
1	D	62	CRQ	C3-CA3-N3-C2
1	C	62	CRQ	C3-CA3-N3-C1
1	C	62	CRQ	C1-CA1-CB1-CG1

There are no ring outliers.

3 monomers are involved in 7 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	D	62	CRQ	3	0
1	B	62	CRQ	1	0
1	C	62	CRQ	3	0

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

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, 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	216/245 (88%)	-0.47	1 (0%) 91 90	16, 31, 52, 76	0
1	B	213/245 (86%)	-0.39	1 (0%) 91 90	18, 32, 53, 74	0
1	C	217/245 (88%)	-0.17	4 (1%) 68 66	25, 41, 65, 87	0
1	D	214/245 (87%)	-0.19	2 (0%) 84 83	25, 41, 63, 78	0
All	All	860/980 (87%)	-0.31	8 (0%) 84 83	16, 36, 61, 87	0

All (8) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	D	152	VAL	6.4
1	C	152	VAL	4.5
1	C	222	SER	4.4
1	B	2	SER	4.0
1	D	202	LYS	2.7
1	A	219	MET	2.4
1	C	219	MET	2.4
1	C	151	GLY	2.0

6.2 Non-standard residues in protein, DNA, RNA chains [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
1	CRQ	D	62	24/25	0.91	0.09	28,31,36,37	0
1	CRQ	C	62	24/25	0.93	0.12	29,32,37,39	0
1	CRQ	A	62	24/25	0.97	0.08	17,22,27,29	0
1	CRQ	B	62	24/25	0.97	0.09	14,20,23,27	0

6.3 Carbohydrates [i](#)

There are no monosaccharides in this entry.

6.4 Ligands [i](#)

There are no ligands in this entry.

6.5 Other polymers [i](#)

There are no such residues in this entry.