



Full wwPDB X-ray Structure Validation Report ⓘ

Sep 21, 2016 – 09:21 AM EDT

PDB ID : 5J4N
Title : Crystal structure of the L-arginine/agmatine antiporter AdiC in complex with agmatine at 2.6 Angstroem resolution
Authors : Jeckelmann, J.M.; Ilgue, H.; Fotiadis, D.
Deposited on : 2016-04-01
Resolution : 2.59 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

<http://wwpdb.org/validation/2016/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 : 1.7.1 (RC1), CSD as537be (2016)
Xtriage (Phenix) : 1.9-1692
EDS : rb-20027939
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
Refmac : 5.8.0135
CCP4 : 6.5.0
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : rb-20027939

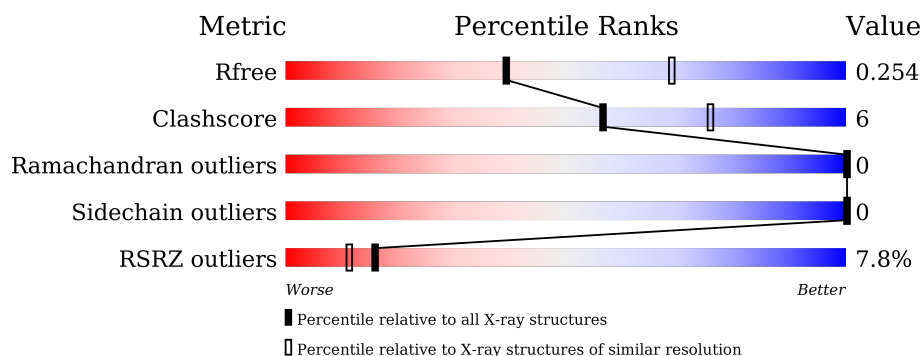
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.59 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}	91344	2328 (2.60-2.60)
Clashscore	102246	2679 (2.60-2.60)
Ramachandran outliers	100387	2635 (2.60-2.60)
Sidechain outliers	100360	2635 (2.60-2.60)
RSRZ outliers	91569	2334 (2.60-2.60)

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	453	 7% 85% 12% .
1	B	453	 8% 85% 11% .

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
2	AG2	B	501	-	-	-	X

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 6533 atoms, of which 28 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.

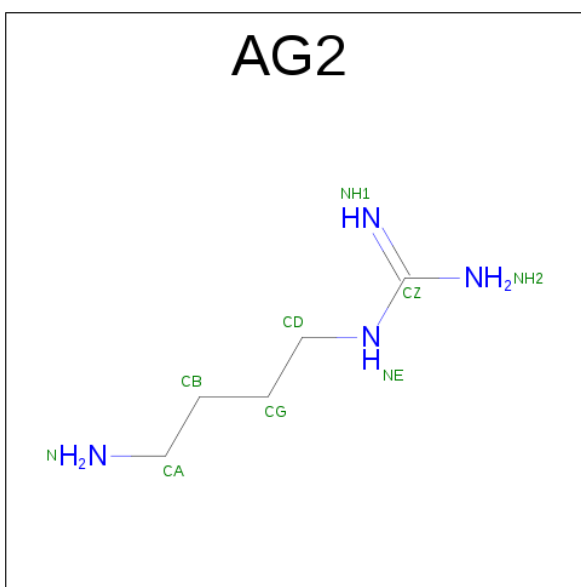
- Molecule 1 is a protein called Arginine/agmatine antiporter.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	437	Total	C	N	O	S	0	0	0
			3240	2149	518	551	22			
1	B	436	Total	C	N	O	S	0	0	0
			3235	2146	517	550	22			

There are 16 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	446	LEU	-	expression tag	UNP P60063
A	447	GLU	-	expression tag	UNP P60063
A	448	LEU	-	expression tag	UNP P60063
A	449	GLU	-	expression tag	UNP P60063
A	450	VAL	-	expression tag	UNP P60063
A	451	LEU	-	expression tag	UNP P60063
A	452	PHE	-	expression tag	UNP P60063
A	453	GLN	-	expression tag	UNP P60063
B	446	LEU	-	expression tag	UNP P60063
B	447	GLU	-	expression tag	UNP P60063
B	448	LEU	-	expression tag	UNP P60063
B	449	GLU	-	expression tag	UNP P60063
B	450	VAL	-	expression tag	UNP P60063
B	451	LEU	-	expression tag	UNP P60063
B	452	PHE	-	expression tag	UNP P60063
B	453	GLN	-	expression tag	UNP P60063

- Molecule 2 is AGMATINE (three-letter code: AG2) (formula: C₅H₁₄N₄).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	C	H	N	0	0
			23	5	14	4		
2	B	1	Total	C	H	N	0	0
			23	5	14	4		

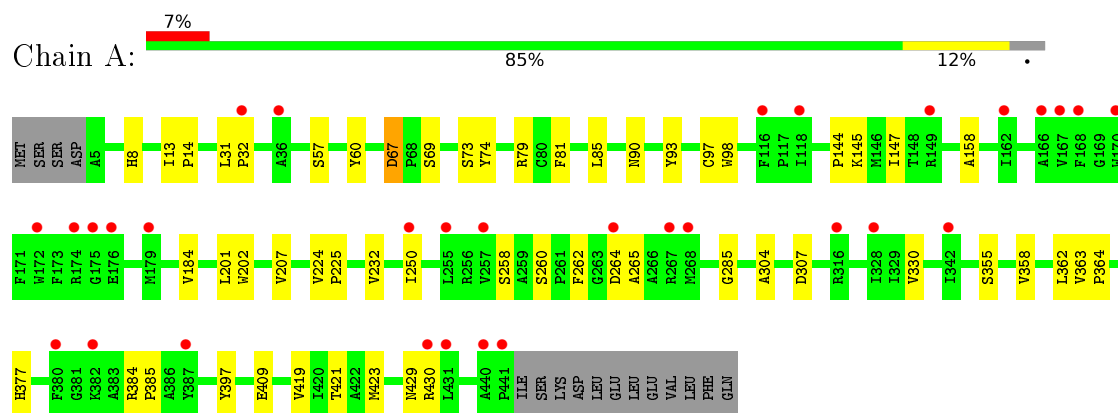
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	10	Total	O	0	0
			10	10		
3	B	2	Total	O	0	0
			2	2		

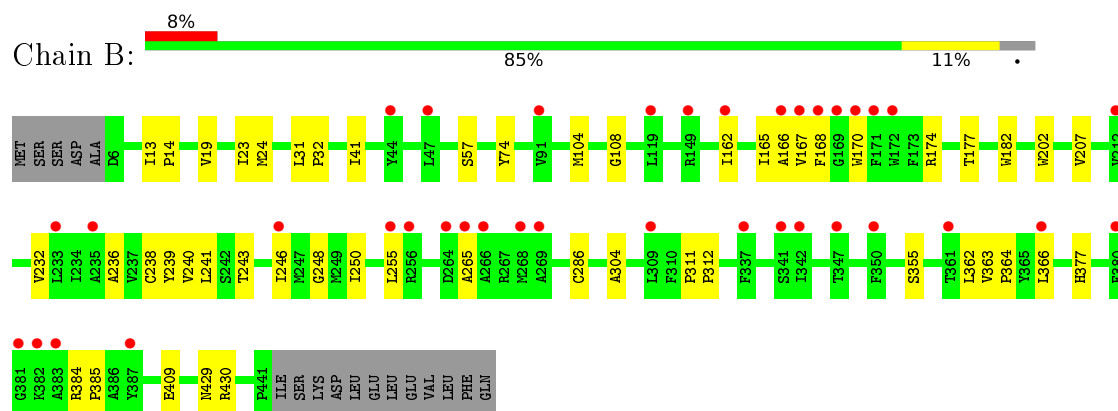
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors 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: Arginine/agmatine antiporter



- Molecule 1: Arginine/agmatine antiporter



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants a, b, c, α , β , γ	104.77Å 175.63Å 72.87Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	49.44 – 2.59 49.44 – 2.59	Depositor EDS
% Data completeness (in resolution range)	98.0 (49.44-2.59) 98.5 (49.44-2.59)	Depositor EDS
R_{merge}	0.01	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	0.91 (at 2.58Å)	Xtriage
Refinement program	PHENIX (phenix.refine: 1.9_1692)	Depositor
R, R_{free}	0.221 , 0.251 0.224 , 0.254	Depositor DCC
R_{free} test set	2089 reflections (5.00%)	DCC
Wilson B-factor (Å ²)	62.2	Xtriage
Anisotropy	0.432	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.31 , 59.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	6533	wwPDB-VP
Average B, all atoms (Å ²)	68.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.43% 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: AG2

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	0.37	0/3326	0.46	1/4553 (0.0%)
1	B	0.47	1/3321 (0.0%)	0.48	0/4546
All	All	0.42	1/6647 (0.0%)	0.47	1/9099 (0.0%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	239	TYR	CE1-CZ	-5.14	1.31	1.38

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	67	ASP	C-N-CD	5.18	139.27	128.40

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	3240	0	3355	47	0
1	B	3235	0	3350	44	0
2	A	9	14	13	0	0
2	B	9	14	13	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	A	10	0	0	3	0
3	B	2	0	0	0	0
All	All	6505	28	6731	81	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 6.

All (81) 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:421:THR:HG21	1:B:366:LEU:CD2	1.80	1.12
1:B:429:ASN:O	1:B:430:ARG:HG2	1.48	1.11
1:A:421:THR:HG21	1:B:366:LEU:HD21	1.31	1.11
1:A:429:ASN:O	1:A:430:ARG:HG2	1.52	1.08
1:A:421:THR:CG2	1:B:366:LEU:HD21	1.89	1.03
1:A:250:ILE:HD11	1:A:265:ALA:HB2	1.47	0.97
1:A:258:SER:OG	1:A:264:ASP:OD2	1.87	0.92
1:B:429:ASN:O	1:B:430:ARG:CG	2.19	0.90
1:A:429:ASN:O	1:A:430:ARG:CG	2.18	0.90
1:B:166:ALA:O	1:B:170:TRP:CD1	2.25	0.90
1:A:250:ILE:HD11	1:A:265:ALA:CB	2.03	0.88
1:A:69:SER:O	3:A:601:HOH:O	1.97	0.80
1:A:250:ILE:CD1	1:A:265:ALA:HB2	2.13	0.78
1:A:307:ASP:OD2	3:A:602:HOH:O	2.06	0.73
1:B:174:ARG:O	1:B:177:THR:OG1	2.11	0.66
1:A:184:VAL:HG12	1:A:184:VAL:O	2.00	0.61
1:A:260:SER:O	1:A:264:ASP:N	2.31	0.61
1:B:19:VAL:O	1:B:23:ILE:HG13	2.00	0.60
1:A:67:ASP:OD2	1:A:79:ARG:NE	2.32	0.59
1:B:32:PRO:HB3	1:B:246:ILE:HG21	1.84	0.59
1:B:177:THR:OG1	1:B:248:GLY:O	2.21	0.59
1:A:421:THR:CG2	1:B:366:LEU:CD2	2.62	0.58
1:B:108:GLY:CA	1:B:286:CYS:SG	2.92	0.57
1:A:13:ILE:HB	1:A:14:PRO:HD3	1.87	0.57
1:B:13:ILE:HB	1:B:14:PRO:HD3	1.86	0.56
1:B:167:VAL:HG12	1:B:168:PHE:CD1	2.40	0.56
1:A:421:THR:CB	1:B:366:LEU:HD21	2.36	0.55
1:B:250:ILE:HD11	1:B:265:ALA:CB	2.36	0.55
1:B:104:MET:O	1:B:286:CYS:SG	2.64	0.55
1:A:201:LEU:O	1:A:397:TYR:OH	2.19	0.54
1:A:250:ILE:HD11	1:A:265:ALA:HB1	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:162:ILE:HG21	1:B:238:CYS:HB3	1.89	0.54
1:A:144:PRO:HA	1:A:147:ILE:HG22	1.89	0.53
1:B:41:ILE:HG13	1:B:182:TRP:CZ2	2.44	0.53
1:B:355:SER:HB3	1:B:409:GLU:HG2	1.92	0.52
1:B:108:GLY:HA3	1:B:286:CYS:SG	2.50	0.51
1:A:98:TRP:CB	1:A:330:VAL:HG13	2.40	0.51
1:B:24:MET:HE3	1:B:238:CYS:HB2	1.92	0.50
1:A:377:HIS:CG	1:B:430:ARG:HB3	2.46	0.50
1:B:162:ILE:O	1:B:165:ILE:HG22	2.12	0.50
1:A:363:VAL:HB	1:A:364:PRO:HD3	1.94	0.48
1:A:430:ARG:HB3	1:B:377:HIS:CG	2.49	0.48
1:A:429:ASN:C	1:A:430:ARG:HG2	2.27	0.48
1:B:250:ILE:HD11	1:B:265:ALA:HB2	1.95	0.47
1:A:421:THR:HG21	1:B:366:LEU:HD23	1.85	0.47
1:A:74:TYR:CZ	1:A:304:ALA:HA	2.50	0.47
1:A:8:HIS:HA	1:A:145:LYS:HD2	1.97	0.46
1:A:202:TRP:CH2	1:A:362:LEU:HD11	2.51	0.46
1:A:98:TRP:HB3	1:A:330:VAL:HG13	1.98	0.46
1:B:429:ASN:C	1:B:430:ARG:HG2	2.27	0.45
1:B:363:VAL:HB	1:B:364:PRO:HD3	1.98	0.45
1:A:57:SER:HB3	1:A:232:VAL:HG21	1.97	0.45
1:A:60:TYR:OH	1:A:73:SER:OG	2.30	0.45
1:B:207:VAL:HG23	1:B:232:VAL:HG21	1.98	0.45
1:A:384:ARG:CZ	1:B:430:ARG:CZ	2.95	0.45
1:A:419:VAL:O	1:A:423:MET:HG3	2.17	0.44
1:B:243:THR:O	1:B:246:ILE:HG22	2.17	0.44
1:A:384:ARG:N	1:A:385:PRO:HD2	2.33	0.44
1:B:236:ALA:O	1:B:240:VAL:HG23	2.17	0.43
1:B:57:SER:HB3	1:B:232:VAL:HG21	1.99	0.43
1:A:158:ALA:HB2	1:A:285:GLY:HA3	2.00	0.43
1:B:207:VAL:HG23	1:B:232:VAL:CG2	2.48	0.42
1:A:224:VAL:HB	1:A:225:PRO:HD3	2.01	0.42
1:B:250:ILE:HD11	1:B:265:ALA:HB1	2.00	0.42
1:B:246:ILE:HG12	1:B:255:LEU:HD11	2.02	0.42
1:A:430:ARG:CZ	1:B:384:ARG:CZ	2.97	0.42
1:B:384:ARG:N	1:B:385:PRO:HD2	2.34	0.42
1:A:81:PHE:HB3	1:A:85:LEU:HD12	2.02	0.42
1:B:31:LEU:N	1:B:32:PRO:HD2	2.35	0.42
1:A:32:PRO:HG3	1:A:262:PHE:CE1	2.55	0.41
1:B:74:TYR:CZ	1:B:304:ALA:HA	2.55	0.41
1:A:202:TRP:CZ3	1:A:358:VAL:HG12	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:166:ALA:HB1	1:B:241:LEU:HD13	2.03	0.41
1:A:207:VAL:HG23	1:A:232:VAL:HG21	2.02	0.41
1:B:311:PRO:HA	1:B:312:PRO:HD3	1.94	0.41
1:A:90:ASN:HB3	3:A:603:HOH:O	2.21	0.41
1:A:93:TYR:CE2	1:A:97:CYS:SG	3.14	0.41
1:A:31:LEU:N	1:A:32:PRO:HD2	2.36	0.40
1:B:202:TRP:CH2	1:B:362:LEU:HD11	2.56	0.40
1:A:355:SER:OG	1:A:409:GLU:HG3	2.21	0.40
1:A:429:ASN:C	1:A:430:ARG:CG	2.88	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	435/453 (96%)	431 (99%)	4 (1%)	0	100	100
1	B	434/453 (96%)	430 (99%)	4 (1%)	0	100	100
All	All	869/906 (96%)	861 (99%)	8 (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	335/351 (95%)	335 (100%)	0	100	100
1	B	335/351 (95%)	335 (100%)	0	100	100
All	All	670/702 (95%)	670 (100%)	0	100	100

There are no protein residues with a non-rotameric sidechain to report.

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

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates ⓘ

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	AG2	A	501	-	7,8,8	1.28	1 (14%)	8,8,8	0.99	0
2	AG2	B	501	-	7,8,8	1.30	1 (14%)	8,8,8	0.92	0

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	AG2	A	501	-	-	0/6/6/6	0/0/0/0
2	AG2	B	501	-	-	0/6/6/6	0/0/0/0

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	501	AG2	CZ-NH2	2.80	1.46	1.34
2	A	501	AG2	CZ-NH2	2.81	1.46	1.34

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	437/453 (96%)	0.67	31 (7%) 19 13	49, 62, 96, 115	0
1	B	436/453 (96%)	0.73	37 (8%) 13 9	48, 66, 104, 130	0
All	All	873/906 (96%)	0.70	68 (7%) 16 11	48, 64, 100, 130	0

All (68) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	166	ALA	6.4
1	B	168	PHE	5.3
1	A	170	TRP	5.0
1	B	170	TRP	4.7
1	A	441	PRO	4.5
1	A	440	ALA	4.3
1	B	268	MET	4.3
1	A	32	PRO	4.1
1	A	268	MET	4.1
1	B	162	ILE	4.0
1	B	342	ILE	3.9
1	A	250	ILE	3.7
1	B	266	ALA	3.5
1	B	264	ASP	3.4
1	B	383	ALA	3.3
1	A	387	TYR	3.3
1	A	257	VAL	3.2
1	B	269	ALA	3.2
1	B	382	LYS	3.2
1	A	176	GLU	3.1
1	B	381	GLY	3.1
1	A	168	PHE	3.0
1	B	255	LEU	3.0
1	A	175	GLY	3.0

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Mol	Chain	Res	Type	RSRZ
1	A	172	TRP	2.9
1	A	179	MET	2.9
1	A	264	ASP	2.9
1	A	267	ARG	2.8
1	A	431	LEU	2.8
1	A	430	ARG	2.8
1	A	255	LEU	2.8
1	B	341	SER	2.8
1	B	387	TYR	2.7
1	B	167	VAL	2.7
1	A	149	ARG	2.7
1	B	166	ALA	2.7
1	A	116	PHE	2.7
1	A	380	PHE	2.7
1	A	162	ILE	2.7
1	B	235	ALA	2.6
1	B	350	PHE	2.6
1	A	328	ILE	2.6
1	B	347	THR	2.6
1	B	169	GLY	2.6
1	B	47	LEU	2.5
1	B	171	PHE	2.5
1	A	174	ARG	2.4
1	B	366	LEU	2.4
1	B	256	ARG	2.4
1	B	265	ALA	2.3
1	A	316	ARG	2.3
1	B	119	LEU	2.3
1	B	172	TRP	2.3
1	B	246	ILE	2.2
1	A	167	VAL	2.2
1	A	36	ALA	2.2
1	B	212	VAL	2.2
1	A	342	ILE	2.2
1	B	233	LEU	2.1
1	B	44	TYR	2.1
1	B	361	THR	2.1
1	B	91	VAL	2.1
1	A	382	LYS	2.1
1	B	149	ARG	2.1
1	B	337	PHE	2.1
1	A	118	ILE	2.0

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Mol	Chain	Res	Type	RSRZ
1	B	380	PHE	2.0
1	B	309	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 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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. 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	LLDF	B-factors(\AA^2)	Q<0.9
2	AG2	B	501	9/9	0.92	0.34	5.09	49,62,69,75	0
2	AG2	A	501	9/9	0.98	0.22	1.01	42,53,63,67	0

6.5 Other polymers [i](#)

There are no such residues in this entry.