



# wwPDB X-ray Structure Validation Summary Report ⓘ

Sep 7, 2017 – 06:23 AM EDT

PDB ID : 5L1E  
Title : AMPA subtype ionotropic glutamate receptor GluA2 in complex with non-competitive inhibitor CP465022  
Authors : Yelshanskaya, M.V.; Singh, A.K.; Sampson, J.M.; Sobolevsky, A.I.  
Deposited on : unknown  
Resolution : 4.37 Å(reported)

This is a wwPDB X-ray Structure Validation Summary Report for a publicly released PDB entry.

We welcome your comments at [validation@mail.wwpdb.org](mailto: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.

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

MolProbity	:	4.02b-467
Mogul	:	1.7.2 (RC1), CSD as538be (2017)
Xtriage (Phenix)	:	1.9-1692
EDS	:	rb-20029824
Percentile statistics	:	20161228.v01 (using entries in the PDB archive December 28th 2016)
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-20029824

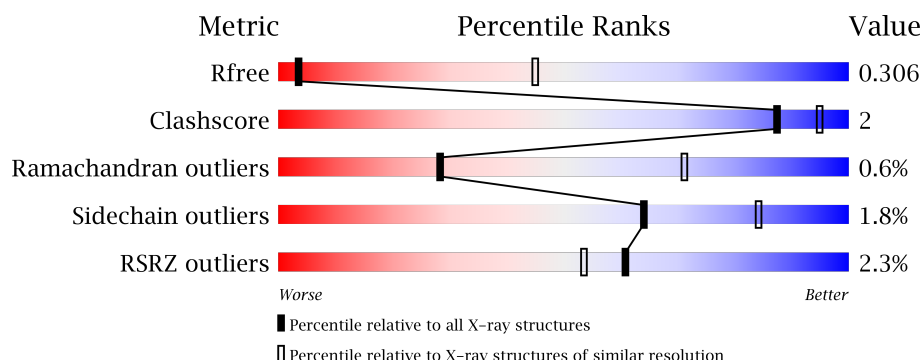
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

## *X-RAY DIFFRACTION*

The reported resolution of this entry is 4.37 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))
$R_{free}$	100719	1024 (5.08-3.62)
Clashscore	112137	1020 (5.06-3.70)
Ramachandran outliers	110173	1018 (5.08-3.66)
Sidechain outliers	110143	1000 (5.08-3.66)
RSRZ outliers	101464	1007 (5.08-3.64)

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  $\geq 3$ , 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	803	<div> <div>2%</div> <div>91%</div> <div>6%</div> <div>.</div> </div>
1	B	803	<div> <div>2%</div> <div>86%</div> <div>10%</div> <div>.</div> </div>
1	C	803	<div> <div>3%</div> <div>88%</div> <div>7%</div> <div>.</div> </div>
1	D	803	<div> <div>2%</div> <div>92%</div> <div>5%</div> <div>.</div> </div>

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 crite-

ria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
2	NAG	C	901	-	-	-	X
3	6ZQ	A	902	-	-	-	X

## 2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 24092 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 Glutamate receptor 2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	777	Total	C	N	O	S	0	0	0
			5986	3847	992	1118	29			
1	B	773	Total	C	N	O	S	0	0	0
			5993	3846	989	1129	29			
1	C	773	Total	C	N	O	S	0	0	0
			5952	3825	985	1114	28			
1	D	777	Total	C	N	O	S	0	0	0
			5972	3835	990	1120	27			

There are 72 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	241	GLU	ASN	engineered mutation	UNP P19491
A	?	-	VAL	deletion	UNP P19491
A	?	-	THR	deletion	UNP P19491
A	?	-	LEU	deletion	UNP P19491
A	?	-	PRO	deletion	UNP P19491
A	?	-	SER	deletion	UNP P19491
A	?	-	GLY	deletion	UNP P19491
A	385	ASP	ASN	engineered mutation	UNP P19491
A	392	GLN	ASN	engineered mutation	UNP P19491
A	564	ASP	-	linker	UNP P19491
A	565	THR	-	linker	UNP P19491
A	566	ASP	-	linker	UNP P19491
A	589	ALA	CYS	engineered mutation	UNP P19491
A	827	GLY	-	cloning artifact	UNP P19491
A	828	LEU	-	cloning artifact	UNP P19491
A	829	VAL	-	cloning artifact	UNP P19491
A	830	PRO	-	cloning artifact	UNP P19491
A	831	ARG	-	cloning artifact	UNP P19491
B	241	GLU	ASN	engineered mutation	UNP P19491
B	?	-	VAL	deletion	UNP P19491
B	?	-	THR	deletion	UNP P19491

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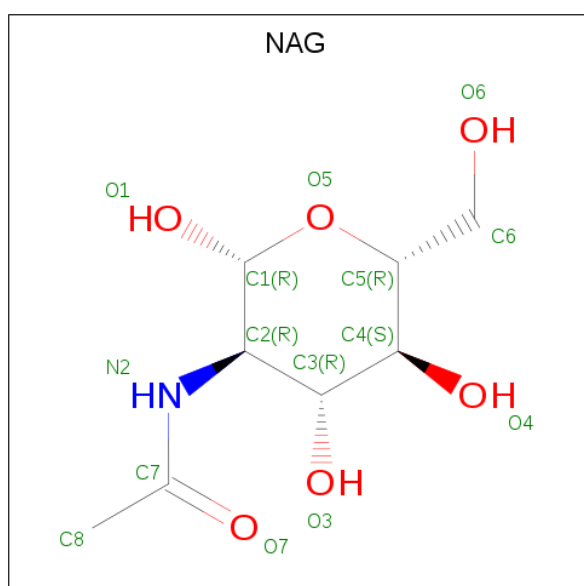
Chain	Residue	Modelled	Actual	Comment	Reference
B	?	-	LEU	deletion	UNP P19491
B	?	-	PRO	deletion	UNP P19491
B	?	-	SER	deletion	UNP P19491
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B	829	VAL	-	cloning artifact	UNP P19491
B	830	PRO	-	cloning artifact	UNP P19491
B	831	ARG	-	cloning artifact	UNP P19491
C	241	GLU	ASN	engineered mutation	UNP P19491
C	?	-	VAL	deletion	UNP P19491
C	?	-	THR	deletion	UNP P19491
C	?	-	LEU	deletion	UNP P19491
C	?	-	PRO	deletion	UNP P19491
C	?	-	SER	deletion	UNP P19491
C	?	-	GLY	deletion	UNP P19491
C	385	ASP	ASN	engineered mutation	UNP P19491
C	392	GLN	ASN	engineered mutation	UNP P19491
C	564	ASP	-	linker	UNP P19491
C	565	THR	-	linker	UNP P19491
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C	828	LEU	-	cloning artifact	UNP P19491
C	829	VAL	-	cloning artifact	UNP P19491
C	830	PRO	-	cloning artifact	UNP P19491
C	831	ARG	-	cloning artifact	UNP P19491
D	241	GLU	ASN	engineered mutation	UNP P19491
D	?	-	VAL	deletion	UNP P19491
D	?	-	THR	deletion	UNP P19491
D	?	-	LEU	deletion	UNP P19491
D	?	-	PRO	deletion	UNP P19491
D	?	-	SER	deletion	UNP P19491
D	?	-	GLY	deletion	UNP P19491
D	385	ASP	ASN	engineered mutation	UNP P19491
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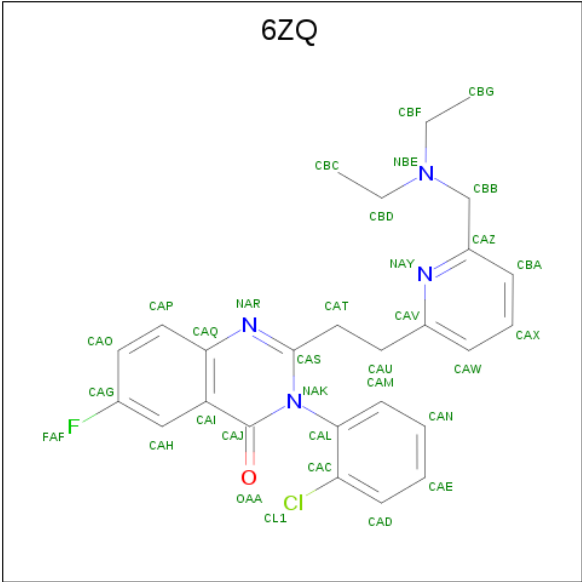
Chain	Residue	Modelled	Actual	Comment	Reference
D	564	ASP	-	linker	UNP P19491
D	565	THR	-	linker	UNP P19491
D	566	ASP	-	linker	UNP P19491
D	589	ALA	CYS	engineered mutation	UNP P19491
D	827	GLY	-	cloning artifact	UNP P19491
D	828	LEU	-	cloning artifact	UNP P19491
D	829	VAL	-	cloning artifact	UNP P19491
D	830	PRO	-	cloning artifact	UNP P19491
D	831	ARG	-	cloning artifact	UNP P19491

- Molecule 2 is N-ACETYL-D-GLUCOSAMINE (three-letter code: NAG) (formula:  $C_8H_{15}NO_6$ ).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	C	N	O	0	0
			15	8	1	6		
2	B	1	Total	C	N	O	0	0
			14	8	1	5		
2	C	1	Total	C	N	O	0	0
			14	8	1	5		
2	D	1	Total	C	N	O	0	0
			14	8	1	5		

- Molecule 3 is 3-(2-chlorophenyl)-2-(2-{6-[(diethylamino)methyl]pyridin-2-yl}ethyl)-6-fluoroquinazolin-4(3H)-one (three-letter code: 6ZQ) (formula:  $C_{26}H_{26}ClFN_4O$ ).

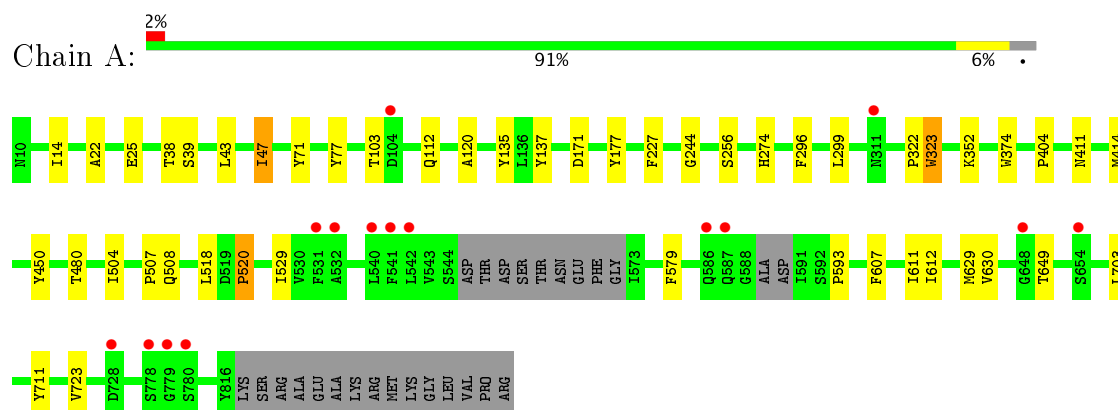


Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
3	A	1	Total	C	Cl	F	N	O	0	0
			33	26	1	1	4	1		
3	B	1	Total	C	Cl	F	N	O	0	0
			33	26	1	1	4	1		
3	C	1	Total	C	Cl	F	N	O	0	0
			33	26	1	1	4	1		
3	D	1	Total	C	Cl	F	N	O	0	0
			33	26	1	1	4	1		

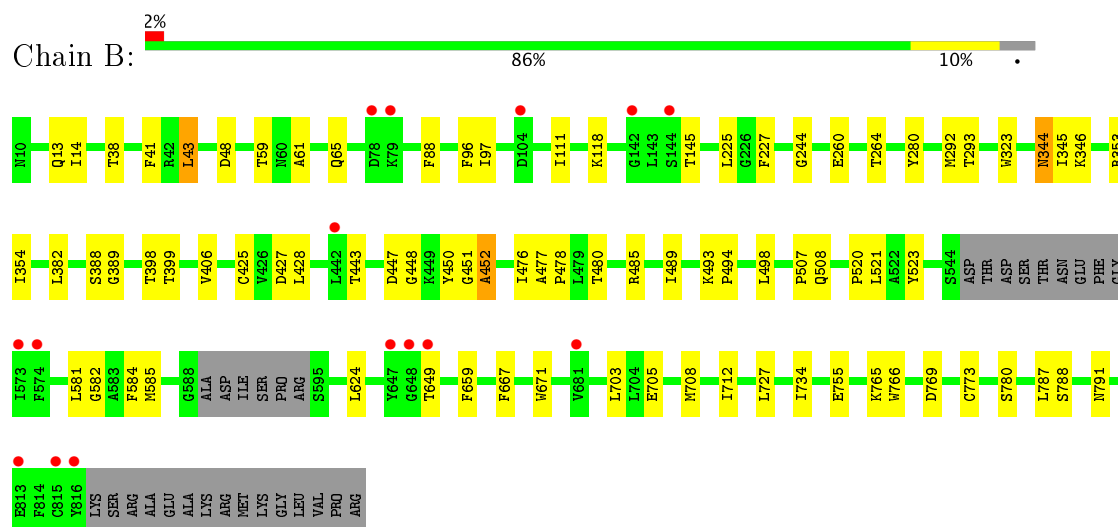
### 3 Residue-property plots [i](#)

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.

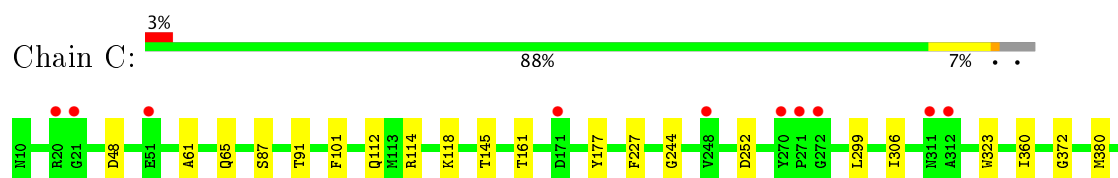
#### • Molecule 1: Glutamate receptor 2



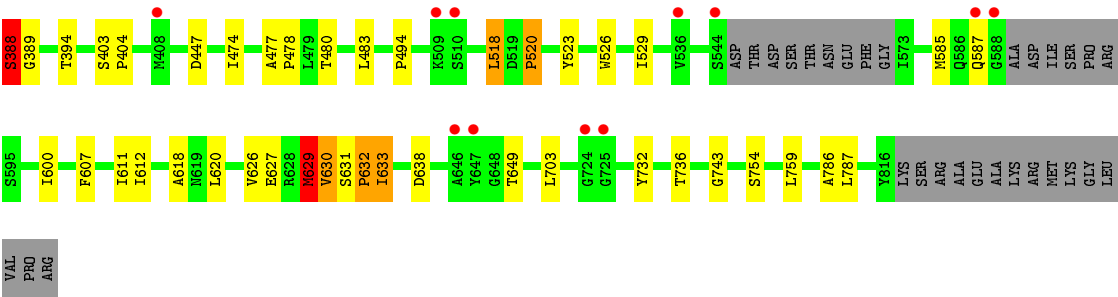
#### • Molecule 1: Glutamate receptor 2



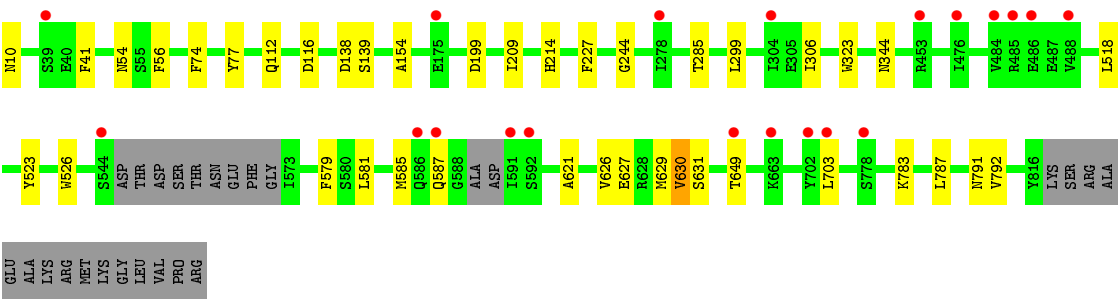
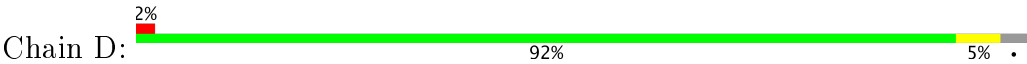
#### • Molecule 1: Glutamate receptor 2







• Molecule 1: Glutamate receptor 2



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	92.68Å 109.86Å 602.46Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	49.02 – 4.37 49.02 – 4.37	Depositor EDS
% Data completeness (in resolution range)	97.9 (49.02-4.37) 98.5 (49.02-4.37)	Depositor EDS
$R_{merge}$	0.10	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.52 (at 4.45Å)	Xtriage
Refinement program	PHENIX 1.10.1 _2155	Depositor
R, $R_{free}$	0.239 , 0.292 0.262 , 0.306	Depositor DCC
$R_{free}$ test set	2025 reflections (5.00%)	DCC
Wilson B-factor (Å <sup>2</sup> )	238.0	Xtriage
Anisotropy	0.187	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.22 , 224.8	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.35$ , $\langle L^2 \rangle = 0.18$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.85	EDS
Total number of atoms	24092	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	275.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.12% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

<sup>2</sup>Theoretical 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: 6ZQ, NAG

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	0/6109	0.41	0/8269
1	B	0.25	0/6115	0.43	0/8274
1	C	0.31	1/6074 (0.0%)	0.45	3/8225 (0.0%)
1	D	0.24	0/6095	0.41	0/8255
All	All	0.26	1/24393 (0.0%)	0.42	3/33023 (0.0%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	629	MET	C-N	14.61	1.67	1.34

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	629	MET	C-N-CA	7.13	139.53	121.70
1	C	388	SER	CA-C-N	5.21	126.62	116.20
1	C	632	PRO	CA-C-N	5.00	128.21	117.20

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	5986	0	5886	20	0
1	B	5993	0	5913	42	0
1	C	5952	0	5839	40	0
1	D	5972	0	5848	22	0
2	A	15	0	15	0	0
2	B	14	0	13	0	0
2	C	14	0	13	0	0
2	D	14	0	13	0	0
3	A	33	0	0	1	0
3	B	33	0	0	1	0
3	C	33	0	0	2	0
3	D	33	0	0	3	0
All	All	24092	0	23540	115	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 2.

The worst 5 of 115 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:629:MET:C	1:C:630:VAL:N	1.67	1.45
1:C:631:SER:OG	1:C:632:PRO:C	2.06	0.93
1:D:630:VAL:HG23	3:D:902:6ZQ:CBG	2.02	0.89
1:C:626:VAL:HG11	1:D:783:LYS:O	1.82	0.79
1:C:631:SER:OG	1:C:632:PRO:O	2.01	0.78

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	771/803 (96%)	723 (94%)	44 (6%)	4 (0%)	32 74

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	B	767/803 (96%)	714 (93%)	50 (6%)	3 (0%)	38	77
1	C	767/803 (96%)	718 (94%)	41 (5%)	8 (1%)	18	61
1	D	771/803 (96%)	722 (94%)	47 (6%)	2 (0%)	44	81
All	All	3076/3212 (96%)	2877 (94%)	182 (6%)	17 (1%)	28	71

5 of 17 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	C	388	SER
1	C	630	VAL
1	C	743	GLY
1	C	786	ALA
1	D	587	GLN

### 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	627/683 (92%)	615 (98%)	12 (2%)	62	82
1	B	636/683 (93%)	626 (98%)	10 (2%)	68	85
1	C	622/683 (91%)	610 (98%)	12 (2%)	62	82
1	D	623/683 (91%)	613 (98%)	10 (2%)	68	85
All	All	2508/2732 (92%)	2464 (98%)	44 (2%)	64	84

5 of 44 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	523	TYR
1	C	177	TYR
1	D	523	TYR
1	B	773	CYS
1	C	48	ASP

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

Mol	Chain	Res	Type
1	B	344	ASN
1	C	344	ASN

### 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 ⓘ

8 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	NAG	A	901	-	15,15,15	0.13	0	21,21,21	0.28	0
3	6ZQ	A	902	-	36,36,36	1.46	5 (13%)	38,50,50	2.04	8 (21%)
2	NAG	B	901	-	14,14,15	0.32	0	15,19,21	0.52	0
3	6ZQ	B	902	-	36,36,36	1.47	5 (13%)	38,50,50	1.95	6 (15%)
2	NAG	C	901	-	14,14,15	0.38	0	15,19,21	0.62	0
3	6ZQ	C	902	-	36,36,36	1.50	5 (13%)	38,50,50	1.98	7 (18%)
2	NAG	D	901	-	14,14,15	0.29	0	15,19,21	0.38	0
3	6ZQ	D	902	-	36,36,36	1.46	5 (13%)	38,50,50	2.01	8 (21%)

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	NAG	A	901	-	-	0/6/26/26	0/1/1/1
3	6ZQ	A	902	-	-	0/17/17/17	0/4/4/4
2	NAG	B	901	-	-	0/6/23/26	0/1/1/1
3	6ZQ	B	902	-	-	0/17/17/17	0/4/4/4
2	NAG	C	901	-	-	0/6/23/26	0/1/1/1
3	6ZQ	C	902	-	-	0/17/17/17	0/4/4/4
2	NAG	D	901	-	-	0/6/23/26	0/1/1/1
3	6ZQ	D	902	-	-	0/17/17/17	0/4/4/4

The worst 5 of 20 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	902	6ZQ	CAJ-NAK	-2.57	1.33	1.37
3	B	902	6ZQ	CAJ-NAK	-2.49	1.33	1.37
3	A	902	6ZQ	CAI-CAQ	-2.39	1.36	1.41
3	D	902	6ZQ	CAI-CAQ	-2.39	1.36	1.41
3	D	902	6ZQ	CAJ-NAK	-2.38	1.33	1.37

The worst 5 of 29 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	902	6ZQ	CAI-CAQ-NAR	-8.78	118.66	123.67
3	D	902	6ZQ	CAI-CAQ-NAR	-8.71	118.70	123.67
3	C	902	6ZQ	CAI-CAQ-NAR	-8.60	118.76	123.67
3	B	902	6ZQ	CAI-CAQ-NAR	-8.46	118.85	123.67
3	B	902	6ZQ	CAO-CAG-CAH	-2.81	120.04	123.22

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

4 monomers are involved in 7 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	902	6ZQ	1	0
3	B	902	6ZQ	1	0
3	C	902	6ZQ	2	0
3	D	902	6ZQ	3	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	C	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	C	629:MET	C	630:VAL	N	1.67



## 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, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
1	A	777/803 (96%)	-0.24	15 (1%) 67 60	141, 251, 384, 431	0
1	B	773/803 (96%)	-0.18	15 (1%) 67 60	128, 237, 362, 483	0
1	C	773/803 (96%)	-0.06	21 (2%) 55 46	160, 288, 389, 435	0
1	D	777/803 (96%)	-0.15	20 (2%) 56 47	176, 299, 395, 443	0
All	All	3100/3212 (96%)	-0.16	71 (2%) 61 53	128, 272, 387, 483	0

The worst 5 of 71 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	816	TYR	6.8
1	D	702	TYR	5.2
1	C	20	ARG	5.1
1	A	778	SER	5.0
1	C	544	SER	5.0

### 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, 95<sup>th</sup> 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( $\text{\AA}^2$ )	Q<0.9
2	NAG	C	901	14/15	0.96	0.39	2.92	264,288,305,316	0
3	6ZQ	A	902	33/33	0.89	0.45	1.11	233,285,399,416	0
3	6ZQ	C	902	33/33	0.92	0.40	0.40	244,354,442,442	0
3	6ZQ	B	902	33/33	0.90	0.26	0.27	295,323,434,439	0
3	6ZQ	D	902	33/33	0.80	0.23	-0.43	240,314,354,385	0
2	NAG	A	901	15/15	0.94	0.15	-	72,132,149,152	0
2	NAG	D	901	14/15	0.71	0.57	-	228,316,336,339	0
2	NAG	B	901	14/15	0.97	0.22	-	196,210,271,277	0

## 6.5 Other polymers [i](#)

There are no such residues in this entry.