



# Full wwPDB X-ray Structure Validation Report ⓘ

Oct 19, 2024 – 11:43 AM EDT

PDB ID : 5E2G  
Title : Crystal Structure of D-alanine Carboxypeptidase AmpC from Burkholderia cenocepacia  
Authors : Kim, Y.; Joachimiak, G.; Endres, M.; Babnigg, G.; Joachimiak, A.; Midwest Center for Structural Genomics (MCSG)  
Deposited on : 2015-10-01  
Resolution : 1.65 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](mailto: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>.

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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 : 2022.3.0, CSD as543be (2022)  
Xtriage (Phenix) : 1.20.1  
EDS : 3.0  
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)  
CCP4 : 9.0.003 (Gargrove)  
Density-Fitness : 1.0.11  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.39

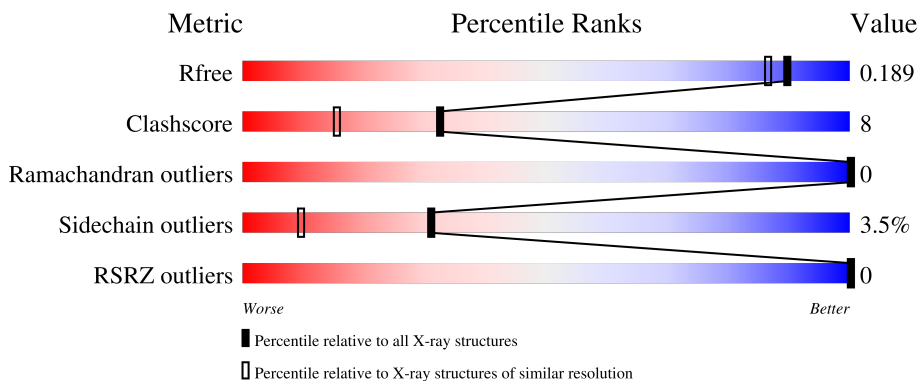
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*



The reported resolution of this entry is 1.65 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))
$R_{free}$	164625	2328 (1.66-1.66)
Clashscore	180529	2515 (1.66-1.66)
Ramachandran outliers	177936	2475 (1.66-1.66)
Sidechain outliers	177891	2475 (1.66-1.66)
RSRZ outliers	164620	2328 (1.66-1.66)

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  $\geq 3$ , 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	361	 79% 16% . .
1	B	361	 80% 15% . .

## 2 Entry composition i

There are 4 unique types of molecules in this entry. The entry contains 6057 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.

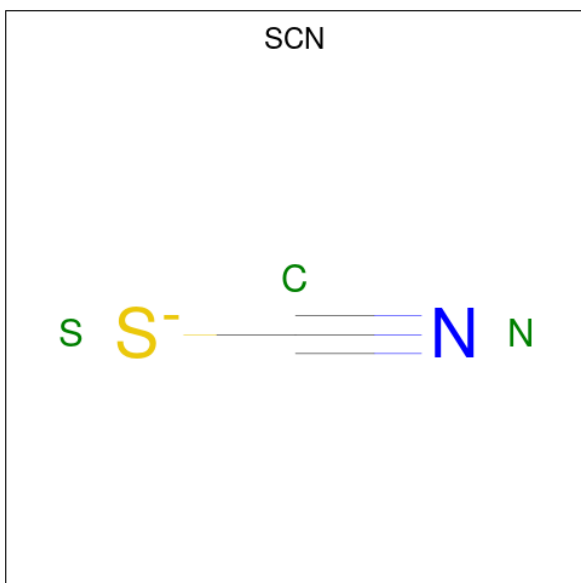
- Molecule 1 is a protein called Beta-lactamase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	Se			
1	A	349	2689	1723	464	488	14	0	3	0
1	B	345	2640	1692	455	479	14	0	1	0

There are 6 discrepancies between the modelled and reference sequences:

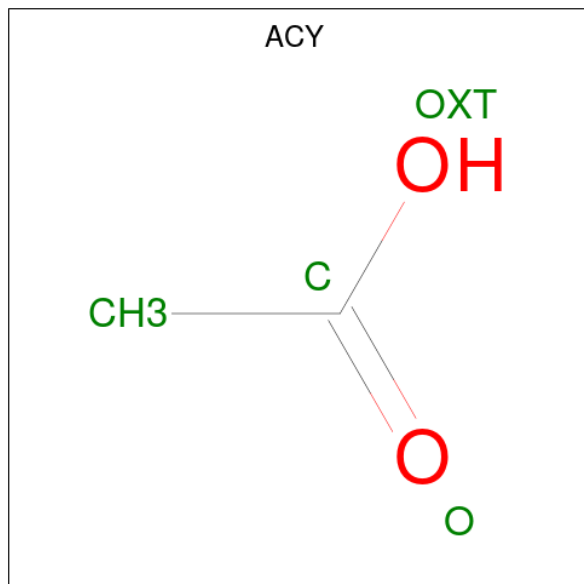
Chain	Residue	Modelled	Actual	Comment	Reference
A	-2	SER	-	expression tag	UNP B4EPS2
A	-1	ASN	-	expression tag	UNP B4EPS2
A	0	ALA	-	expression tag	UNP B4EPS2
B	-2	SER	-	expression tag	UNP B4EPS2
B	-1	ASN	-	expression tag	UNP B4EPS2
B	0	ALA	-	expression tag	UNP B4EPS2

- Molecule 2 is THIOCYANATE ION (three-letter code: SCN) (formula: CNS).



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

- Molecule 3 is ACETIC ACID (three-letter code: ACY) (formula: C<sub>2</sub>H<sub>4</sub>O<sub>2</sub>).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total C O 4 2 2	0	0
3	B	1	Total C O 4 2 2	0	0


- Molecule 4 is water.

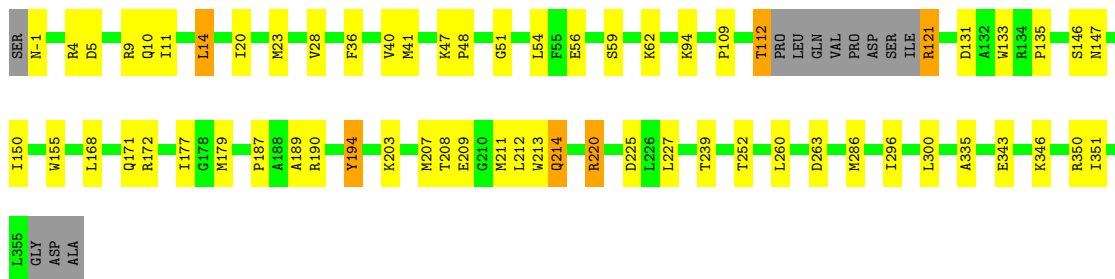
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	346	Total O 346 346	0	0
4	B	356	Total O 356 356	0	0

### 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.

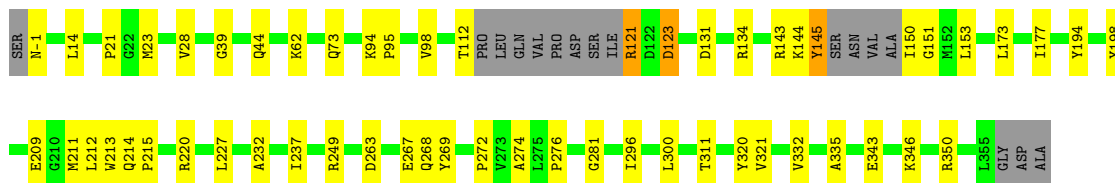
- Molecule 1: Beta-lactamase

Chain A:  79% 16%



- Molecule 1: Beta-lactamase

Chain B:  80% 15%



## 4 Data and refinement statistics i

Property	Value	Source
Space group	P 32	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	85.97Å 85.97Å 90.40Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	34.42 – 1.65 34.42 – 1.65	Depositor EDS
% Data completeness (in resolution range)	97.9 (34.42-1.65) 97.9 (34.42-1.65)	Depositor EDS
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	0.09	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.63 (at 1.65Å)	Xtrriage
Refinement program	PHENIX (1.10pre_2104: ???)	Depositor
R, $R_{free}$	0.150 , 0.189 0.150 , 0.189	Depositor DCC
$R_{free}$ test set	4391 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	21.2	Xtrriage
Anisotropy	0.116	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.34 , 39.5	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.50$ , $\langle L^2 \rangle = 0.33$	Xtrriage
Estimated twinning fraction	0.019 for -h,-k,l 0.467 for h,-h-k,-l 0.022 for -k,-h,-l	Xtrriage
$F_o, F_c$ correlation	0.98	EDS
Total number of atoms	6057	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	28.0	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.*

<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: ACY, SCN

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	0.32	0/2744	0.52	0/3716
1	B	0.34	0/2692	0.53	0/3642
All	All	0.33	0/5436	0.53	0/7358

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	2689	0	2700	45	0
1	B	2640	0	2658	39	0
2	A	9	0	0	0	0
2	B	9	0	0	0	0
3	A	4	0	3	1	0
3	B	4	0	3	0	0
4	A	346	0	0	15	4
4	B	356	0	0	9	5
All	All	6057	0	5364	84	6

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 8.

All (84) 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:260:LEU:HD13	1:A:286:MSE:HE2	1.65	0.77
1:B:123:ASP:OD2	4:B:501:HOH:O	2.07	0.73
1:B:121:ARG:N	4:B:507:HOH:O	2.24	0.70
1:A:207:MSE:O	4:A:502:HOH:O	2.11	0.68
1:A:62:LYS:NZ	4:A:512:HOH:O	2.22	0.67
3:A:404:ACY:O	4:A:504:HOH:O	2.14	0.66
1:B:121:ARG:HH11	1:B:121:ARG:HB3	1.61	0.64
1:A:121:ARG:NH2	4:A:519:HOH:O	2.32	0.63
1:B:150:ILE:HA	1:B:153:LEU:HB3	1.84	0.60
1:A:211:MSE:HG3	1:A:212:LEU:HD22	1.83	0.59
1:A:213:TRP:CE2	1:A:214:GLN:HG2	2.38	0.59
1:B:272:PRO:O	4:B:502:HOH:O	2.17	0.57
1:A:133:TRP:CH2	1:A:135:PRO:HB3	2.40	0.56
1:A:28:VAL:HG23	1:A:227:LEU:HD11	1.88	0.56
1:B:296:ILE:HG21	1:B:300:LEU:HG	1.87	0.55
1:A:62:LYS:HG2	1:A:150:ILE:HG12	1.87	0.55
1:A:56:GLU:HG2	1:A:220:ARG:HD2	1.88	0.55
1:A:343:GLU:OE1	4:A:507:HOH:O	2.18	0.54
1:B:151:GLY:HA2	1:B:215:PRO:HB2	1.89	0.54
1:A:225:ASP:OD1	4:A:506:HOH:O	2.18	0.54
1:B:73:GLN:NE2	4:B:515:HOH:O	2.42	0.53
1:B:249:ARG:NH1	4:B:515:HOH:O	2.35	0.53
1:A:147:ASN:OD1	4:A:508:HOH:O	2.19	0.52
1:A:20:ILE:HG21	1:A:335:ALA:HB1	1.91	0.52
1:A:10:GLN:HG3	1:A:351:ILE:HG13	1.91	0.51
1:A:203:LYS:HE2	1:B:44:GLN:HG3	1.91	0.51
1:B:311:THR:HG22	1:B:320:TYR:CD1	2.45	0.51
1:A:41:MSE:SE	1:A:47:LYS:HE3	2.61	0.50
1:B:209:GLU:HB3	1:B:213:TRP:CD1	2.46	0.50
1:B:39:GLY:O	4:B:503:HOH:O	2.20	0.50
1:A:177:ILE:HB	1:A:179:MSE:HG3	1.93	0.49
1:A:239:THR:HG22	4:A:664:HOH:O	2.11	0.49
1:A:171[A]:GLN:OE1	4:A:509:HOH:O	2.20	0.48
1:B:28:VAL:HG23	1:B:227:LEU:HD11	1.95	0.48
1:A:54:LEU:HB2	1:A:194:TYR:HA	1.94	0.48
1:B:62:LYS:HD3	1:B:150:ILE:HG12	1.96	0.47
1:A:296:ILE:HG21	1:A:300:LEU:HG	1.97	0.47
1:A:11:ILE:HG23	1:A:23:MSE:SE	2.65	0.47
1:B:62:LYS:HB3	1:B:150:ILE:HG12	1.97	0.47
1:B:343:GLU:OE2	4:B:504:HOH:O	2.20	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:143:ARG:NH2	1:B:267:GLU:OE2	2.48	0.47
1:B:151:GLY:HA3	4:B:683:HOH:O	2.14	0.46
1:B:232:ALA:HB2	1:B:237:ILE:HD11	1.96	0.46
1:B:263:ASP:OD2	1:B:268:GLN:NE2	2.49	0.46
1:A:5:ASP:O	1:A:9:ARG:HG3	2.16	0.46
1:A:109:PRO:O	4:A:510:HOH:O	2.21	0.46
1:A:62:LYS:CG	1:A:150:ILE:HG12	2.46	0.46
1:B:14:LEU:HD23	1:B:14:LEU:HA	1.83	0.46
1:A:209:GLU:OE1	4:A:511:HOH:O	2.21	0.45
1:A:112:THR:HG21	1:A:146:SER:OG	2.17	0.45
1:B:311:THR:HG22	1:B:320:TYR:HD1	1.80	0.45
1:B:321:VAL:HG22	1:B:332:VAL:HG22	1.98	0.45
1:A:62:LYS:HB3	1:A:150:ILE:HG12	1.98	0.45
1:A:4:ARG:HG3	1:A:36:PHE:CD1	2.52	0.45
1:B:346:LYS:O	1:B:350:ARG:HG3	2.17	0.44
1:A:-1:ASN:N	4:A:517:HOH:O	2.29	0.44
1:B:144:LYS:HE2	1:B:145:TYR:O	2.17	0.44
1:B:211:MSE:HE2	1:B:211:MSE:HB2	1.85	0.44
1:B:23:MSE:HE3	1:B:335:ALA:HB2	1.99	0.43
1:A:62:LYS:HE2	1:A:150:ILE:HG21	2.00	0.43
1:A:189:ALA:HB3	4:A:704:HOH:O	2.18	0.43
1:B:150:ILE:HA	1:B:153:LEU:CB	2.47	0.43
1:A:346:LYS:O	1:A:350:ARG:HG3	2.18	0.43
1:B:213:TRP:CE2	1:B:214:GLN:HG3	2.53	0.43
1:A:62:LYS:CE	1:A:150:ILE:HG21	2.48	0.42
1:A:168:LEU:O	1:A:172:ARG:HB3	2.19	0.42
1:B:121:ARG:HG2	1:B:211:MSE:HE1	2.02	0.42
1:B:274:ALA:HB1	1:B:276:PRO:HD2	2.02	0.42
1:A:208:THR:HA	4:A:656:HOH:O	2.19	0.41
1:B:62:LYS:HD3	1:B:150:ILE:HG21	2.02	0.41
1:A:252:THR:O	1:A:263:ASP:HA	2.20	0.41
1:A:51:GLY:N	4:A:530:HOH:O	2.39	0.41
1:B:21:PRO:HG2	1:B:198:TYR:CD1	2.56	0.41
1:B:95:PRO:HG2	1:B:134:ARG:HD3	2.03	0.41
1:A:14:LEU:HD23	1:A:14:LEU:HA	1.92	0.41
1:A:62:LYS:HD3	1:A:150:ILE:HG21	2.02	0.41
1:A:187:PRO:HD2	1:A:190:ARG:HB2	2.03	0.41
1:A:62:LYS:CD	1:A:150:ILE:HG21	2.51	0.41
1:B:-1:ASN:N	4:B:513:HOH:O	2.33	0.41
1:B:95:PRO:O	1:B:98:VAL:HG22	2.21	0.41
1:A:40:VAL:HA	1:A:48:PRO:HA	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:343:GLU:OE2	1:A:346:LYS:NZ	2.37	0.40
1:B:173:LEU:O	1:B:177:ILE:HG12	2.20	0.40
1:B:269:TYR:OH	1:B:281:GLY:HA3	2.22	0.40

All (6) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:595:HOH:O	4:A:614:HOH:O[3_555]	2.03	0.17
4:B:785:HOH:O	4:B:793:HOH:O[2_664]	2.10	0.10
4:B:660:HOH:O	4:B:762:HOH:O[2_664]	2.12	0.08
4:A:718:HOH:O	4:B:718:HOH:O[2_664]	2.13	0.07
4:A:786:HOH:O	4:B:779:HOH:O[3_454]	2.14	0.06
4:A:784:HOH:O	4:B:696:HOH:O[3_454]	2.19	0.01

## 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	348/361 (96%)	339 (97%)	9 (3%)	0	100	100
1	B	340/361 (94%)	327 (96%)	13 (4%)	0	100	100
All	All	688/722 (95%)	666 (97%)	22 (3%)	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	275/268 (103%)	263 (96%)	12 (4%)	24	6
1	B	270/268 (101%)	261 (97%)	9 (3%)	33	10
All	All	545/536 (102%)	524 (96%)	21 (4%)	31	7

All (21) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	14	LEU
1	A	59[A]	SER
1	A	59[B]	SER
1	A	94	LYS
1	A	112	THR
1	A	121	ARG
1	A	131	ASP
1	A	155[A]	TRP
1	A	155[B]	TRP
1	A	194	TYR
1	A	214	GLN
1	A	220	ARG
1	B	94	LYS
1	B	112	THR
1	B	121	ARG
1	B	123	ASP
1	B	131	ASP
1	B	145	TYR
1	B	194	TYR
1	B	212	LEU
1	B	220	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (6) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	268	GLN
1	B	92	GLN
1	B	196	GLN
1	B	268	GLN
1	B	282	ASN
1	B	309	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](#)

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](#)

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	SCN	A	403	-	1,2,2	1.16	0	0,1,1	-	-
2	SCN	A	402	-	1,2,2	0.51	0	0,1,1	-	-
2	SCN	B	401	-	1,2,2	0.94	0	0,1,1	-	-
2	SCN	B	403	-	1,2,2	1.09	0	0,1,1	-	-
3	ACY	A	404	-	3,3,3	0.74	0	3,3,3	0.95	0
2	SCN	A	401	-	1,2,2	0.69	0	0,1,1	-	-
2	SCN	B	402	-	1,2,2	0.86	0	0,1,1	-	-
3	ACY	B	404	-	3,3,3	0.76	0	3,3,3	0.72	0

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.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	404	ACY	1	0

## 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, 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	335/361 (92%)	-1.30	0 <a href="#">100</a> <a href="#">100</a>	10, 23, 55, 115	3 (0%)
1	B	331/361 (91%)	-1.28	0 <a href="#">100</a> <a href="#">100</a>	9, 23, 56, 126	1 (0%)
All	All	666/722 (92%)	-1.29	0 <a href="#">100</a> <a href="#">100</a>	9, 23, 55, 126	4 (0%)

There are no RSRZ outliers to report.

### 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 monosaccharides 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, 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	B-factors(Å <sup>2</sup> )	Q<0.9
3	ACY	A	404	4/4	0.99	0.04	41,48,48,56	0
3	ACY	B	404	4/4	0.99	0.06	31,31,31,35	0
2	SCN	A	403	3/3	1.00	0.06	22,22,46,60	0
2	SCN	B	401	3/3	1.00	0.02	17,17,17,17	0
2	SCN	B	402	3/3	1.00	0.07	27,27,31,35	0
2	SCN	B	403	3/3	1.00	0.04	29,29,44,51	0
2	SCN	A	401	3/3	1.00	0.03	22,22,22,25	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
2	SCN	A	402	3/3	1.00	0.02	14,14,17,21	0

## 6.5 Other polymers [i](#)

There are no such residues in this entry.