



# Full wwPDB X-ray Structure Validation Report ⓘ

May 22, 2023 – 03:25 PM EDT

PDB ID : 8SWD  
Title : Crystal Structure of CiaD from *Campylobacter jejuni* (C-terminal fragment)  
Authors : Seattle Structural Genomics Center for Infectious Disease (SSGCID)  
Deposited on : 2023-05-18  
Resolution : 2.45 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  
Xtriage (Phenix) : 1.13  
EDS : 2.33  
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) : 2.33

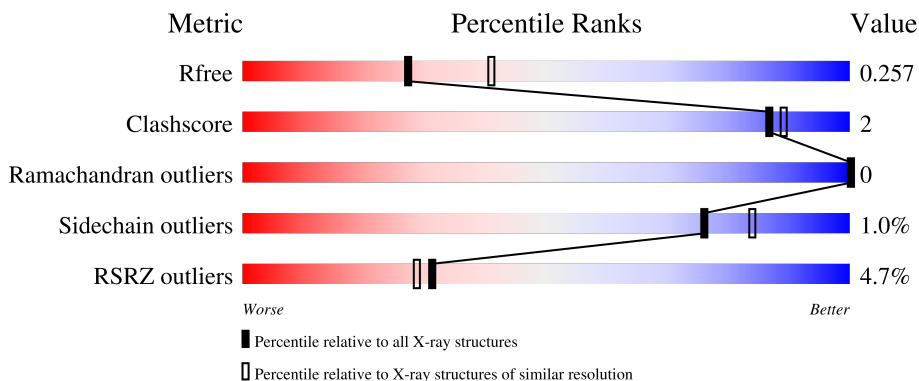
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 2.45 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	1544 (2.48-2.44)
Clashscore	141614	1613 (2.48-2.44)
Ramachandran outliers	138981	1598 (2.48-2.44)
Sidechain outliers	138945	1598 (2.48-2.44)
RSRZ outliers	127900	1523 (2.48-2.44)

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	195	
1	B	195	
1	C	195	
1	D	195	

## 2 Entry composition i

There are 4 unique types of molecules in this entry. The entry contains 1872 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 2-oxoglutarate:acceptor oxidoreductase.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
1	A	54	480	311	82	87	0	3	0
1	B	54	465	301	80	84	0	1	0
1	C	53	457	296	76	85	0	2	0
1	D	53	454	291	77	86	0	2	0

There are 128 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-28	MET	-	initiating methionine	UNP Q0PAA2
A	-27	HIS	-	expression tag	UNP Q0PAA2
A	-26	HIS	-	expression tag	UNP Q0PAA2
A	-25	HIS	-	expression tag	UNP Q0PAA2
A	-24	HIS	-	expression tag	UNP Q0PAA2
A	-23	HIS	-	expression tag	UNP Q0PAA2
A	-22	HIS	-	expression tag	UNP Q0PAA2
A	-21	SER	-	expression tag	UNP Q0PAA2
A	-20	SER	-	expression tag	UNP Q0PAA2
A	-19	GLY	-	expression tag	UNP Q0PAA2
A	-18	VAL	-	expression tag	UNP Q0PAA2
A	-17	ASP	-	expression tag	UNP Q0PAA2
A	-16	LEU	-	expression tag	UNP Q0PAA2
A	-15	TRP	-	expression tag	UNP Q0PAA2
A	-14	SER	-	expression tag	UNP Q0PAA2
A	-13	HIS	-	expression tag	UNP Q0PAA2
A	-12	PRO	-	expression tag	UNP Q0PAA2
A	-11	GLN	-	expression tag	UNP Q0PAA2
A	-10	PHE	-	expression tag	UNP Q0PAA2
A	-9	GLU	-	expression tag	UNP Q0PAA2
A	-8	LYS	-	expression tag	UNP Q0PAA2

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Chain	Residue	Modelled	Actual	Comment	Reference
A	-7	GLY	-	expression tag	UNP Q0PAA2
A	-6	THR	-	expression tag	UNP Q0PAA2
A	-5	GLU	-	expression tag	UNP Q0PAA2
A	-4	ASN	-	expression tag	UNP Q0PAA2
A	-3	LEU	-	expression tag	UNP Q0PAA2
A	-2	TYR	-	expression tag	UNP Q0PAA2
A	-1	PHE	-	expression tag	UNP Q0PAA2
A	0	GLN	-	expression tag	UNP Q0PAA2
A	1	SER	-	expression tag	UNP Q0PAA2
A	2	ASN	-	expression tag	UNP Q0PAA2
A	3	ILE	-	expression tag	UNP Q0PAA2
B	-28	MET	-	initiating methionine	UNP Q0PAA2
B	-27	HIS	-	expression tag	UNP Q0PAA2
B	-26	HIS	-	expression tag	UNP Q0PAA2
B	-25	HIS	-	expression tag	UNP Q0PAA2
B	-24	HIS	-	expression tag	UNP Q0PAA2
B	-23	HIS	-	expression tag	UNP Q0PAA2
B	-22	HIS	-	expression tag	UNP Q0PAA2
B	-21	SER	-	expression tag	UNP Q0PAA2
B	-20	SER	-	expression tag	UNP Q0PAA2
B	-19	GLY	-	expression tag	UNP Q0PAA2
B	-18	VAL	-	expression tag	UNP Q0PAA2
B	-17	ASP	-	expression tag	UNP Q0PAA2
B	-16	LEU	-	expression tag	UNP Q0PAA2
B	-15	TRP	-	expression tag	UNP Q0PAA2
B	-14	SER	-	expression tag	UNP Q0PAA2
B	-13	HIS	-	expression tag	UNP Q0PAA2
B	-12	PRO	-	expression tag	UNP Q0PAA2
B	-11	GLN	-	expression tag	UNP Q0PAA2
B	-10	PHE	-	expression tag	UNP Q0PAA2
B	-9	GLU	-	expression tag	UNP Q0PAA2
B	-8	LYS	-	expression tag	UNP Q0PAA2
B	-7	GLY	-	expression tag	UNP Q0PAA2
B	-6	THR	-	expression tag	UNP Q0PAA2
B	-5	GLU	-	expression tag	UNP Q0PAA2
B	-4	ASN	-	expression tag	UNP Q0PAA2
B	-3	LEU	-	expression tag	UNP Q0PAA2
B	-2	TYR	-	expression tag	UNP Q0PAA2
B	-1	PHE	-	expression tag	UNP Q0PAA2
B	0	GLN	-	expression tag	UNP Q0PAA2
B	1	SER	-	expression tag	UNP Q0PAA2
B	2	ASN	-	expression tag	UNP Q0PAA2

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Chain	Residue	Modelled	Actual	Comment	Reference
B	3	ILE	-	expression tag	UNP Q0PAA2
C	-28	MET	-	initiating methionine	UNP Q0PAA2
C	-27	HIS	-	expression tag	UNP Q0PAA2
C	-26	HIS	-	expression tag	UNP Q0PAA2
C	-25	HIS	-	expression tag	UNP Q0PAA2
C	-24	HIS	-	expression tag	UNP Q0PAA2
C	-23	HIS	-	expression tag	UNP Q0PAA2
C	-22	HIS	-	expression tag	UNP Q0PAA2
C	-21	SER	-	expression tag	UNP Q0PAA2
C	-20	SER	-	expression tag	UNP Q0PAA2
C	-19	GLY	-	expression tag	UNP Q0PAA2
C	-18	VAL	-	expression tag	UNP Q0PAA2
C	-17	ASP	-	expression tag	UNP Q0PAA2
C	-16	LEU	-	expression tag	UNP Q0PAA2
C	-15	TRP	-	expression tag	UNP Q0PAA2
C	-14	SER	-	expression tag	UNP Q0PAA2
C	-13	HIS	-	expression tag	UNP Q0PAA2
C	-12	PRO	-	expression tag	UNP Q0PAA2
C	-11	GLN	-	expression tag	UNP Q0PAA2
C	-10	PHE	-	expression tag	UNP Q0PAA2
C	-9	GLU	-	expression tag	UNP Q0PAA2
C	-8	LYS	-	expression tag	UNP Q0PAA2
C	-7	GLY	-	expression tag	UNP Q0PAA2
C	-6	THR	-	expression tag	UNP Q0PAA2
C	-5	GLU	-	expression tag	UNP Q0PAA2
C	-4	ASN	-	expression tag	UNP Q0PAA2
C	-3	LEU	-	expression tag	UNP Q0PAA2
C	-2	TYR	-	expression tag	UNP Q0PAA2
C	-1	PHE	-	expression tag	UNP Q0PAA2
C	0	GLN	-	expression tag	UNP Q0PAA2
C	1	SER	-	expression tag	UNP Q0PAA2
C	2	ASN	-	expression tag	UNP Q0PAA2
C	3	ILE	-	expression tag	UNP Q0PAA2
D	-28	MET	-	initiating methionine	UNP Q0PAA2
D	-27	HIS	-	expression tag	UNP Q0PAA2
D	-26	HIS	-	expression tag	UNP Q0PAA2
D	-25	HIS	-	expression tag	UNP Q0PAA2
D	-24	HIS	-	expression tag	UNP Q0PAA2
D	-23	HIS	-	expression tag	UNP Q0PAA2
D	-22	HIS	-	expression tag	UNP Q0PAA2
D	-21	SER	-	expression tag	UNP Q0PAA2
D	-20	SER	-	expression tag	UNP Q0PAA2

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Chain	Residue	Modelled	Actual	Comment	Reference
D	-19	GLY	-	expression tag	UNP Q0PAA2
D	-18	VAL	-	expression tag	UNP Q0PAA2
D	-17	ASP	-	expression tag	UNP Q0PAA2
D	-16	LEU	-	expression tag	UNP Q0PAA2
D	-15	TRP	-	expression tag	UNP Q0PAA2
D	-14	SER	-	expression tag	UNP Q0PAA2
D	-13	HIS	-	expression tag	UNP Q0PAA2
D	-12	PRO	-	expression tag	UNP Q0PAA2
D	-11	GLN	-	expression tag	UNP Q0PAA2
D	-10	PHE	-	expression tag	UNP Q0PAA2
D	-9	GLU	-	expression tag	UNP Q0PAA2
D	-8	LYS	-	expression tag	UNP Q0PAA2
D	-7	GLY	-	expression tag	UNP Q0PAA2
D	-6	THR	-	expression tag	UNP Q0PAA2
D	-5	GLU	-	expression tag	UNP Q0PAA2
D	-4	ASN	-	expression tag	UNP Q0PAA2
D	-3	LEU	-	expression tag	UNP Q0PAA2
D	-2	TYR	-	expression tag	UNP Q0PAA2
D	-1	PHE	-	expression tag	UNP Q0PAA2
D	0	GLN	-	expression tag	UNP Q0PAA2
D	1	SER	-	expression tag	UNP Q0PAA2
D	2	ASN	-	expression tag	UNP Q0PAA2
D	3	ILE	-	expression tag	UNP Q0PAA2

- Molecule 2 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total Mg 1 1	0	0

- Molecule 3 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	B	1	Total Cl 1 1	0	0

- Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	5	Total O 5 5	0	0

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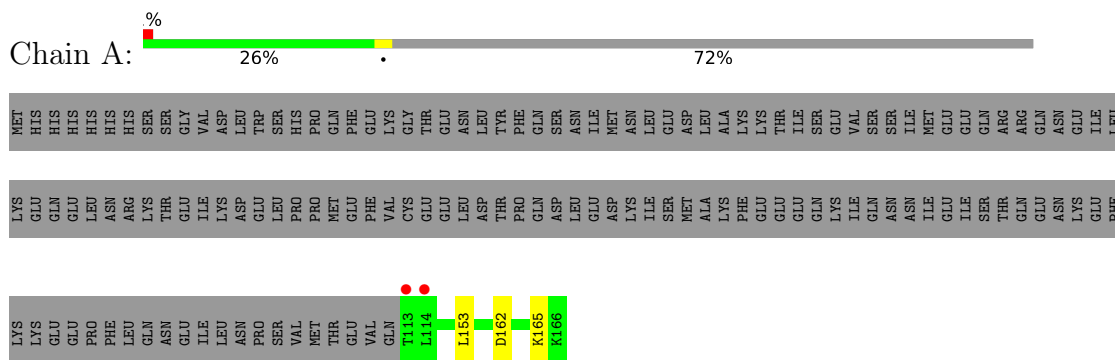
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<b>Mol</b>	<b>Chain</b>	<b>Residues</b>	<b>Atoms</b>	<b>ZeroOcc</b>	<b>AltConf</b>
4	B	5	Total O 5 5	0	0
4	C	1	Total O 1 1	0	0
4	D	3	Total O 3 3	0	0

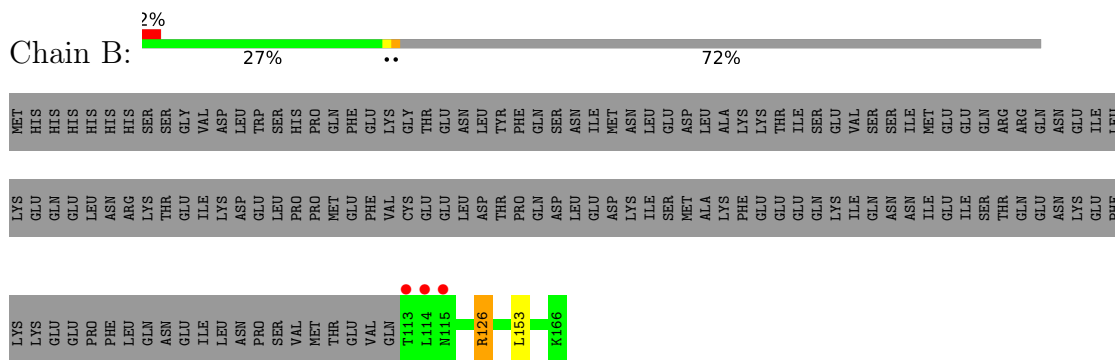
### 3 Residue-property plots

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.

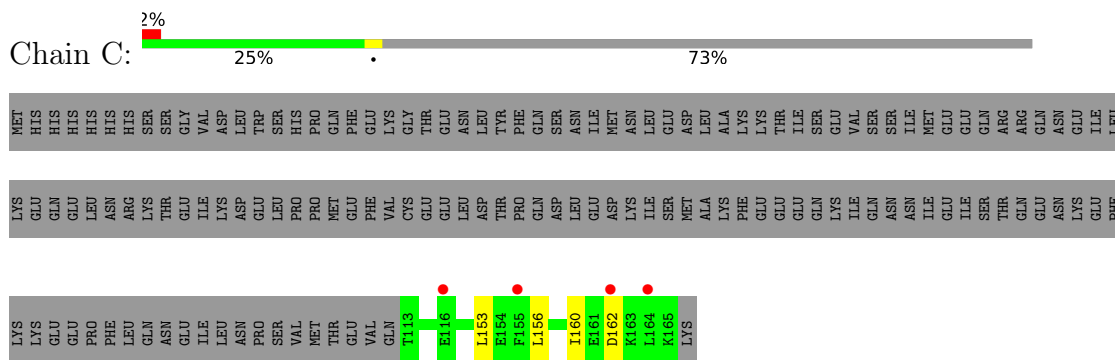
- Molecule 1: 2-oxoglutarate:acceptor oxidoreductase



- Molecule 1: 2-oxoglutarate:acceptor oxidoreductase



- Molecule 1: 2-oxoglutarate:acceptor oxidoreductase



- Molecule 1: 2-oxoglutarate:acceptor oxidoreductase





MET HIS HIS HIS HIS HIS SER SER GLY VAL ASP LEU TRP SER HIS PRO GLN PHE GLU LYS GLY THR GLU ASN LEU TYR PHE GLN SER SER ASN ILE MET ASN LEU GLU ASP LEU ALA LYS LYS THR ILE SER GLU VAL SER SER ILE MET GLU GLN ARG ASN GLU ILE LEU

LYS GLU GLN LEU ASN ARG LYS THR GLU ILE LYS ASP GLU LEU PRO PRO MET GLU PHE VAL CYS GLU LEU ASP THR PRO GLN ASP LEU GLU ASP LYS ILE SER MET ALA LYS PHE GLU GLU LYS ILE GLN ASN ASN ILE GLU SER THR GLN ASN PHE

LYS LYS GLU PRO PHE LEU GLN ASN GLU ILE LYS ASP PRO SER VAL GLN T113 L114 L130 L156 I160 K165 LYS

## 4 Data and refinement statistics

Property	Value	Source
Space group	P 41 2 2	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	60.31Å 60.31Å 164.18Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	48.60 – 2.45 48.60 – 2.45	Depositor EDS
% Data completeness (in resolution range)	99.5 (48.60-2.45) 99.9 (48.60-2.45)	Depositor EDS
$R_{merge}$	0.15	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.88 (at 2.45Å)	Xtrriage
Refinement program	PHENIX (1.20.1_4487: ???)	Depositor
R, $R_{free}$	0.225 , 0.265 0.224 , 0.257	Depositor DCC
$R_{free}$ test set	604 reflections (5.10%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	46.7	Xtrriage
Anisotropy	0.671	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.34 , 47.9	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.52$ , $\langle L^2 \rangle = 0.36$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
$F_o, F_c$ correlation	0.96	EDS
Total number of atoms	1872	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	65.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 9.74% 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 [i](#)

### 5.1 Standard geometry [i](#)

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

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	0.28	0/485	0.45	0/649
1	B	0.30	0/470	0.49	0/629
1	C	0.28	0/462	0.46	0/622
1	D	0.28	0/458	0.48	0/617
All	All	0.29	0/1875	0.47	0/2517

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	480	0	494	2	0
1	B	465	0	487	3	0
1	C	457	0	459	2	0
1	D	454	0	456	4	0
2	A	1	0	0	0	0
3	B	1	0	0	0	0
4	A	5	0	0	0	0
4	B	5	0	0	0	0
4	C	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	D	3	0	0	0	0
All	All	1872	0	1896	8	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.

All (8) 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:B:153:LEU:HD13	1:D:130:LEU:HD23	1.88	0.54
1:B:153:LEU:HD13	1:D:130:LEU:CD2	2.37	0.54
1:B:126:ARG:HH11	1:B:126:ARG:HB3	1.74	0.53
1:D:156:LEU:O	1:D:160:ILE:HG12	2.12	0.49
1:D:113:THR:HG22	1:D:113:THR:O	2.12	0.49
1:C:156:LEU:O	1:C:160:ILE:HG12	2.19	0.42
1:A:153:LEU:HD21	1:C:153:LEU:HD21	2.01	0.41
1:A:162:ASP:O	1:A:165:LYS:HG2	2.21	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	55/195 (28%)	55 (100%)	0	0	100	100
1	B	53/195 (27%)	53 (100%)	0	0	100	100
1	C	53/195 (27%)	53 (100%)	0	0	100	100
1	D	53/195 (27%)	53 (100%)	0	0	100	100
All	All	214/780 (27%)	214 (100%)	0	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	54/189 (29%)	54 (100%)	0	100	100
1	B	53/189 (28%)	52 (98%)	1 (2%)	57	69
1	C	51/189 (27%)	50 (98%)	1 (2%)	55	67
1	D	51/189 (27%)	51 (100%)	0	100	100
All	All	209/756 (28%)	207 (99%)	2 (1%)	76	84

All (2) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	126	ARG
1	C	162	ASP

Sometimes 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 monosaccharides in this entry.

## 5.6 Ligand geometry [i](#)

Of 2 ligands modelled in this entry, 2 are monoatomic - leaving 0 for Mogul analysis.

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.

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 [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	54/195 (27%)	0.17	2 (3%) 41 38	38, 58, 106, 126	0
1	B	54/195 (27%)	0.36	3 (5%) 24 21	40, 60, 111, 141	0
1	C	53/195 (27%)	0.25	4 (7%) 14 11	48, 66, 104, 113	0
1	D	53/195 (27%)	0.08	1 (1%) 66 64	44, 57, 89, 100	0
All	All	214/780 (27%)	0.22	10 (4%) 31 29	38, 60, 106, 141	0

All (10) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	114	LEU	7.0
1	B	113	THR	3.6
1	B	115	ASN	2.7
1	C	116	GLU	2.6
1	C	164	LEU	2.5
1	C	162	ASP	2.3
1	A	113	THR	2.3
1	D	114	LEU	2.2
1	A	114	LEU	2.2
1	C	155[A]	PHE	2.1

### 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
2	MG	A	201	1/1	0.80	0.14	70,70,70,70	0
3	CL	B	201	1/1	0.80	0.10	96,96,96,96	0

## 6.5 Other polymers [i](#)

There are no such residues in this entry.