



# Full wwPDB X-ray Structure Validation Report ⓘ

Feb 1, 2016 – 10:18 AM GMT

PDB ID : 3LND  
Title : Crystal structure of cadherin-6 EC12 W4A  
Authors : Jin, X.; Harrison, O.; Shapiro, L.  
Deposited on : 2010-02-02  
Resolution : 2.82 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  
<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 (RC4), CSD as536be (2015)  
Xtriage (Phenix) : 1.9-1692  
EDS : rb-20026688  
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) : trunk26865

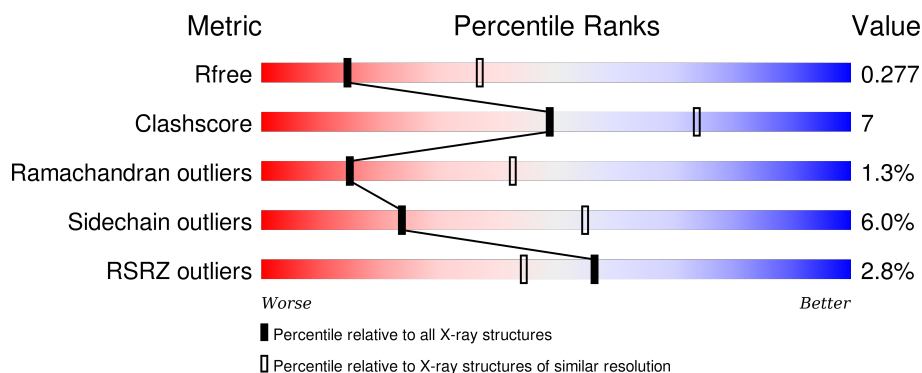
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

## *X-RAY DIFFRACTION*

The reported resolution of this entry is 2.82 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	2676 (2.84-2.80)
Clashscore	102246	3124 (2.84-2.80)
Ramachandran outliers	100387	3072 (2.84-2.80)
Sidechain outliers	100360	3074 (2.84-2.80)
RSRZ outliers	91569	2690 (2.84-2.80)

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	207	<div> <div>6%</div> <div>78% 14% 5%</div> </div>
1	B	207	<div> <div>2%</div> <div>81% 15% ..</div> </div>
1	C	207	<div> <div>77% 15% . .</div> </div>
1	D	207	<div> <div>2%</div> <div>78% 18% ..</div> </div>

## 2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 6390 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 Cdh6 protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	197	Total	C	N	O	S	0	0	0
			1532	960	252	316	4			
1	B	202	Total	C	N	O	S	0	0	0
			1575	987	261	323	4			
1	C	199	Total	C	N	O	S	0	0	0
			1547	968	257	319	3			
1	D	202	Total	C	N	O	S	0	0	0
			1575	987	261	323	4			

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	4	ALA	TRP	ENGINEERED	UNP Q3KNZ1
B	4	ALA	TRP	ENGINEERED	UNP Q3KNZ1
C	4	ALA	TRP	ENGINEERED	UNP Q3KNZ1
D	4	ALA	TRP	ENGINEERED	UNP Q3KNZ1

- Molecule 2 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	B	3	Total	Ca	0	0
			3	3		
2	A	3	Total	Ca	0	0
			3	3		
2	D	3	Total	Ca	0	0
			3	3		
2	C	3	Total	Ca	0	0
			3	3		

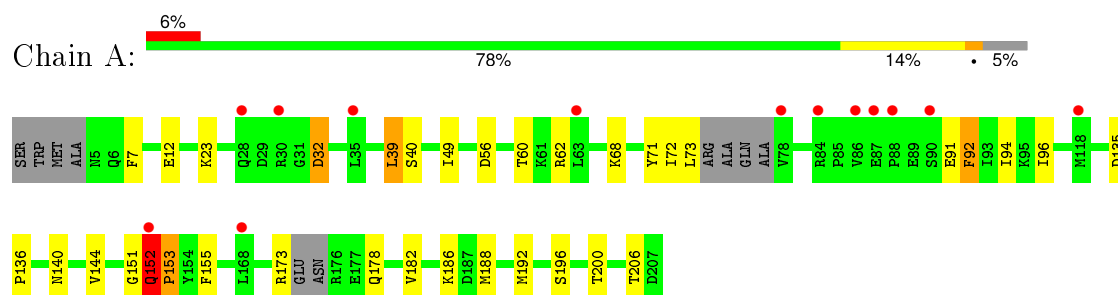
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	37	Total 37	O 37	0	0
3	B	27	Total 27	O 27	0	0
3	C	49	Total 49	O 49	0	0
3	D	36	Total 36	O 36	0	0

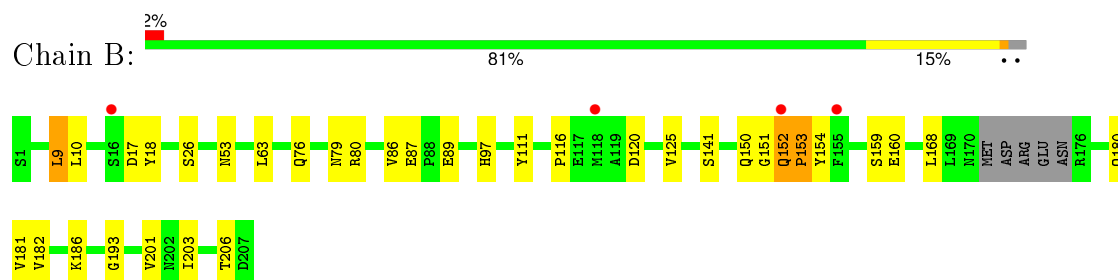
### 3 Residue-property plots [i](#)

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.

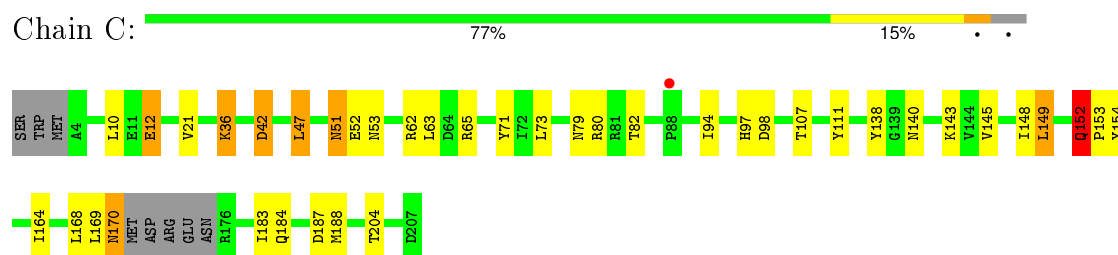
#### • Molecule 1: Cdh6 protein



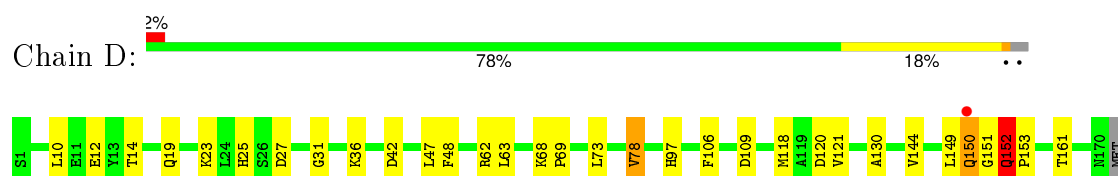
#### • Molecule 1: Cdh6 protein



#### • Molecule 1: Cdh6 protein



#### • Molecule 1: Cdh6 protein





## 4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	55.98 Å 113.56 Å 67.91 Å 90.00° 96.01° 90.00°	Depositor
Resolution (Å)	20.00 – 2.82 39.75 – 2.82	Depositor EDS
% Data completeness (in resolution range)	98.9 (20.00-2.82) 98.8 (39.75-2.82)	Depositor EDS
$R_{merge}$	0.09	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	2.66 (at 2.81 Å)	Xtriage
Refinement program	REFMAC 5.2.0019	Depositor
R, $R_{free}$	0.207 , 0.282 0.208 , 0.277	Depositor DCC
$R_{free}$ test set	1021 reflections (5.35%)	DCC
Wilson B-factor (Å <sup>2</sup> )	60.6	Xtriage
Anisotropy	0.458	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.32 , 56.5	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.50$ , $\langle L^2 \rangle = 0.33$	Xtriage
Outliers	0 of 20165 reflections	Xtriage
$F_o, F_c$ correlation	0.93	EDS
Total number of atoms	6390	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	58.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.54% 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, 0.375 respectively for untwinned datasets, and 0.333, 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: CA

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	0.38	0/1555	0.54	0/2105
1	B	0.37	0/1601	0.55	0/2170
1	C	0.36	0/1571	0.55	0/2129
1	D	0.35	0/1601	0.54	0/2170
All	All	0.37	0/6328	0.54	0/8574

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	1532	0	1479	22	0
1	B	1575	0	1527	22	0
1	C	1547	0	1500	28	0
1	D	1575	0	1527	17	0
2	A	3	0	0	0	0
2	B	3	0	0	0	0
2	C	3	0	0	0	0
2	D	3	0	0	0	0
3	A	37	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	B	27	0	0	0	0
3	C	49	0	0	0	0
3	D	36	0	0	0	0
All	All	6390	0	6033	88	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 7.

All (88) 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:152:GLN:HB3	1:B:153:PRO:CD	1.49	1.35
1:B:152:GLN:CB	1:B:153:PRO:HD2	1.72	1.17
1:B:152:GLN:HB3	1:B:153:PRO:HD2	1.23	1.05
1:B:152:GLN:CB	1:B:153:PRO:CD	2.30	1.05
1:C:164:ILE:HD11	1:C:183:ILE:CD1	1.88	1.02
1:B:152:GLN:HB3	1:B:153:PRO:HD3	1.43	0.99
1:B:152:GLN:O	1:B:154:TYR:N	2.03	0.92
1:C:164:ILE:HD11	1:C:183:ILE:HD11	1.51	0.91
1:B:150:GLN:HB3	1:B:182:VAL:HG12	1.58	0.86
1:B:151:GLY:O	1:B:152:GLN:O	1.98	0.82
1:C:164:ILE:HD11	1:C:183:ILE:HD13	1.65	0.79
1:D:47:LEU:HD11	1:D:63:LEU:HD21	1.66	0.77
1:A:152:GLN:HB2	1:A:153:PRO:CD	2.15	0.75
1:C:164:ILE:CD1	1:C:183:ILE:HD11	2.20	0.70
1:A:152:GLN:HB2	1:A:153:PRO:HD3	1.71	0.70
1:C:65:ARG:HD2	1:C:98:ASP:HB2	1.75	0.69
1:A:7:PHE:O	1:A:94:ILE:HA	1.94	0.68
1:C:21:VAL:HG11	1:C:94:ILE:HD12	1.77	0.65
1:C:47:LEU:HD21	1:C:63:LEU:HD21	1.79	0.65
1:A:39:LEU:H	1:A:39:LEU:HD13	1.61	0.65
1:B:152:GLN:HB2	1:B:153:PRO:HD2	1.74	0.65
1:A:182:VAL:HG22	1:A:200:THR:HG22	1.81	0.63
1:D:36:LYS:HB3	1:D:78:VAL:HG12	1.81	0.62
1:A:152:GLN:CB	1:A:153:PRO:CD	2.78	0.61
1:A:71:TYR:HE2	1:A:96:ILE:HD11	1.66	0.60
1:C:42:ASP:O	1:C:73:LEU:HD21	2.01	0.60
1:B:111:TYR:HB2	1:B:201:VAL:HG22	1.84	0.59
1:B:152:GLN:O	1:B:153:PRO:C	2.39	0.58
1:B:9:LEU:HD11	1:B:63:LEU:HD12	1.85	0.58
1:C:51:ASN:C	1:C:51:ASN:HD22	2.07	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:12:GLU:HG3	1:A:62:ARG:HE	1.70	0.57
1:C:12:GLU:HG3	1:C:62:ARG:HE	1.69	0.57
1:B:76:GLN:HG3	1:B:89:GLU:HB3	1.87	0.57
1:B:86:VAL:HG23	1:B:87:GLU:HG2	1.89	0.54
1:C:107:THR:HB	1:C:111:TYR:OH	2.08	0.54
1:A:73:LEU:HB3	1:A:92:PHE:H	1.73	0.54
1:A:72:ILE:HG13	1:A:72:ILE:O	2.08	0.53
1:B:186:LYS:HE3	1:B:193:GLY:O	2.09	0.52
1:C:79:ASN:HB3	1:C:82:THR:HG23	1.90	0.52
1:C:10:LEU:HD21	1:D:97:HIS:CE1	2.45	0.52
1:C:36:LYS:HE3	1:C:52:GLU:HB2	1.92	0.51
1:C:154:TYR:HB3	1:C:169:LEU:HD23	1.91	0.51
1:A:73:LEU:C	1:A:91:GLU:HA	2.31	0.51
1:C:97:HIS:HE1	1:C:138:TYR:CE2	2.29	0.51
1:A:32:ASP:OD2	1:A:32:ASP:N	2.30	0.50
1:B:53:ASN:OD1	1:B:80:ARG:NH2	2.45	0.50
1:B:26:SER:HB2	1:B:87:GLU:OE2	2.11	0.50
1:D:106:PHE:HA	1:D:130:ALA:HA	1.94	0.49
1:A:152:GLN:N	1:A:153:PRO:HD2	2.28	0.49
1:A:49:ILE:HD12	1:A:60:THR:HG21	1.95	0.48
1:B:151:GLY:HA3	1:B:181:VAL:HG22	1.95	0.48
1:C:140:ASN:HB2	1:C:143:LYS:HB3	1.96	0.47
1:A:151:GLY:O	1:A:152:GLN:C	2.53	0.47
1:A:186:LYS:HG3	1:A:196:SER:HB3	1.96	0.47
1:B:154:TYR:HA	1:B:168:LEU:HG	1.97	0.47
1:C:187:ASP:HB3	1:C:188:MET:HG2	1.96	0.46
1:C:51:ASN:ND2	1:C:53:ASN:H	2.13	0.46
1:C:148:ILE:HG23	1:C:152:GLN:HG3	1.96	0.46
1:D:68:LYS:HA	1:D:69:PRO:HD3	1.80	0.46
1:C:36:LYS:HB3	1:C:80:ARG:HH11	1.81	0.46
1:D:12:GLU:HA	1:D:62:ARG:HE	1.81	0.46
1:D:48:PHE:CD1	1:D:73:LEU:HD11	2.51	0.45
1:D:150:GLN:HG3	1:D:182:VAL:HB	1.97	0.45
1:C:51:ASN:HD22	1:C:53:ASN:H	1.64	0.45
1:D:144:VAL:HG13	1:D:185:ALA:HB1	1.99	0.45
1:C:168:LEU:O	1:C:169:LEU:HB2	2.16	0.44
1:D:149:LEU:C	1:D:150:GLN:HG2	2.37	0.44
1:D:151:GLY:HA3	1:D:181:VAL:HG12	2.00	0.44
1:A:68:LYS:O	1:A:96:ILE:HD12	2.17	0.44
1:C:51:ASN:HD22	1:C:52:GLU:N	2.16	0.43
1:C:71:TYR:HB2	1:C:94:ILE:HB	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:125:VAL:HG11	1:B:203:ILE:HD12	2.01	0.43
1:D:12:GLU:HB3	1:D:62:ARG:HH11	1.84	0.43
1:A:12:GLU:CG	1:A:62:ARG:HH21	2.31	0.42
1:B:116:PRO:HA	1:B:206:THR:OG1	2.20	0.42
1:D:23:LYS:HE3	1:D:25:HIS:HB2	2.00	0.42
1:D:149:LEU:HD22	1:D:184:GLN:HB2	2.02	0.42
1:A:135:ASP:HA	1:A:136:PRO:HD3	1.93	0.42
1:C:36:LYS:HE3	1:C:36:LYS:HB2	1.95	0.42
1:D:10:LEU:H	1:D:19:GLN:HE22	1.68	0.42
1:D:187:ASP:HB3	1:D:188:MET:HG2	2.01	0.41
1:D:152:GLN:N	1:D:153:PRO:CD	2.83	0.41
1:C:170:ASN:OD1	1:C:170:ASN:N	2.53	0.41
1:A:152:GLN:O	1:A:155:PHE:O	2.39	0.41
1:A:140:ASN:HB3	1:A:188:MET:HA	2.03	0.41
1:A:23:LYS:HB3	1:A:56:ASP:OD1	2.20	0.41
1:B:17:ASP:OD2	1:B:18:TYR:N	2.54	0.40
1:C:149:LEU:HD22	1:C:184:GLN:HB2	2.04	0.40

There are no symmetry-related clashes.

## 5.3 Torsion angles

### 5.3.1 Protein backbone

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	191/207 (92%)	172 (90%)	17 (9%)	2 (1%)	19	51
1	B	198/207 (96%)	190 (96%)	6 (3%)	2 (1%)	19	51
1	C	195/207 (94%)	180 (92%)	13 (7%)	2 (1%)	19	51
1	D	198/207 (96%)	180 (91%)	14 (7%)	4 (2%)	9	29
All	All	782/828 (94%)	722 (92%)	50 (6%)	10 (1%)	15	42

All (10) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	152	GLN
1	B	152	GLN
1	B	153	PRO
1	D	31	GLY
1	D	189	GLY
1	C	152	GLN
1	D	121	VAL
1	A	153	PRO
1	D	152	GLN
1	C	153	PRO

### 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	168/177 (95%)	158 (94%)	10 (6%)	24	55
1	B	172/177 (97%)	163 (95%)	9 (5%)	29	61
1	C	169/177 (96%)	159 (94%)	10 (6%)	24	55
1	D	172/177 (97%)	160 (93%)	12 (7%)	19	46
All	All	681/708 (96%)	640 (94%)	41 (6%)	24	55

All (41) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	32	ASP
1	A	39	LEU
1	A	40	SER
1	A	92	PHE
1	A	144	VAL
1	A	152	GLN
1	A	173	ARG
1	A	178	GLN
1	A	192	MET
1	A	206	THR
1	B	9	LEU
1	B	10	LEU

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Mol	Chain	Res	Type
1	B	79	ASN
1	B	97	HIS
1	B	120	ASP
1	B	141	SER
1	B	159	SER
1	B	160	GLU
1	B	180	GLN
1	C	12	GLU
1	C	36	LYS
1	C	42	ASP
1	C	47	LEU
1	C	51	ASN
1	C	145	VAL
1	C	149	LEU
1	C	152	GLN
1	C	170	ASN
1	C	204	THR
1	D	14	THR
1	D	27	ASP
1	D	42	ASP
1	D	78	VAL
1	D	109	ASP
1	D	118	MET
1	D	120	ASP
1	D	150	GLN
1	D	152	GLN
1	D	161	THR
1	D	177	GLU
1	D	207	ASP

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (14) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	97	HIS
1	B	25	HIS
1	B	79	ASN
1	C	25	HIS
1	C	51	ASN
1	C	97	HIS
1	C	178	GLN
1	C	202	ASN
1	D	19	GLN

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Mol	Chain	Res	Type
1	D	51	ASN
1	D	97	HIS
1	D	140	ASN
1	D	178	GLN
1	D	202	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 carbohydrates in this entry.

## 5.6 Ligand geometry [i](#)

Of 12 ligands modelled in this entry, 12 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 ⓘ

### 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, 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	197/207 (95%)	0.48	13 (6%) 22 12	53, 59, 69, 79	0
1	B	202/207 (97%)	0.07	4 (1%) 68 58	54, 59, 63, 64	0
1	C	199/207 (96%)	0.11	1 (0%) 91 88	54, 58, 62, 69	0
1	D	202/207 (97%)	0.10	4 (1%) 68 58	39, 59, 62, 65	0
All	All	800/828 (96%)	0.19	22 (2%) 56 44	39, 59, 63, 79	0

All (22) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	78	VAL	6.6
1	B	16	SER	4.3
1	A	90	SER	3.7
1	A	86	VAL	3.7
1	B	152	GLN	3.5
1	A	28	GLN	3.3
1	A	118	MET	3.3
1	D	207	ASP	3.2
1	A	87	GLU	3.1
1	A	30	ARG	3.0
1	A	88	PRO	3.0
1	D	190	GLY	2.9
1	A	35	LEU	2.8
1	A	63	LEU	2.8
1	A	84	ARG	2.7
1	A	152	GLN	2.6
1	A	168	LEU	2.4
1	B	118	MET	2.3
1	D	179	TYR	2.1
1	D	150	GLN	2.1
1	B	155	PHE	2.1
1	C	88	PRO	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, 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(Å <sup>2</sup> )	Q<0.9
2	CA	D	208	1/1	0.98	0.02	-2.86	41,41,41,41	0
2	CA	D	209	1/1	0.98	0.07	-2.97	47,47,47,47	0
2	CA	D	210	1/1	0.96	0.07	-3.09	51,51,51,51	0
2	CA	C	208	1/1	0.98	0.05	-3.25	39,39,39,39	0
2	CA	B	208	1/1	0.97	0.05	-3.26	39,39,39,39	0
2	CA	C	210	1/1	0.99	0.05	-4.31	48,48,48,48	0
2	CA	B	210	1/1	0.98	0.06	-4.72	45,45,45,45	0
2	CA	A	208	1/1	0.98	0.03	-4.82	43,43,43,43	0
2	CA	C	209	1/1	0.96	0.03	-4.89	48,48,48,48	0
2	CA	A	210	1/1	0.97	0.03	-5.07	54,54,54,54	0
2	CA	A	209	1/1	0.99	0.05	-6.31	51,51,51,51	0
2	CA	B	209	1/1	0.99	0.06	-10.45	41,41,41,41	0

## 6.5 Other polymers [i](#)

There are no such residues in this entry.