



wwPDB X-ray Structure Validation Summary Report ⓘ

May 29, 2020 – 06:09 am BST

PDB ID : 4UNC
Title : THE CRYSTAL STRUCTURE OF I-DMOI IN COMPLEX WITH ITS TARGET DNA AT 8 DAYS INCUBATION IN 5MM MN (STATE 6)
Authors : Molina, R.; Stella, S.; Redondo, P.; Gomez, H.; Marcaida, M.J.; Orozco, M.; Prieto, J.; Montoya, G.
Deposited on : 2014-05-26
Resolution : 2.30 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

A user guide is available at

<https://www.wwpdb.org/validation/2017/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
Xtriage (Phenix)	:	1.13
EDS	:	2.11
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)	:	2.11

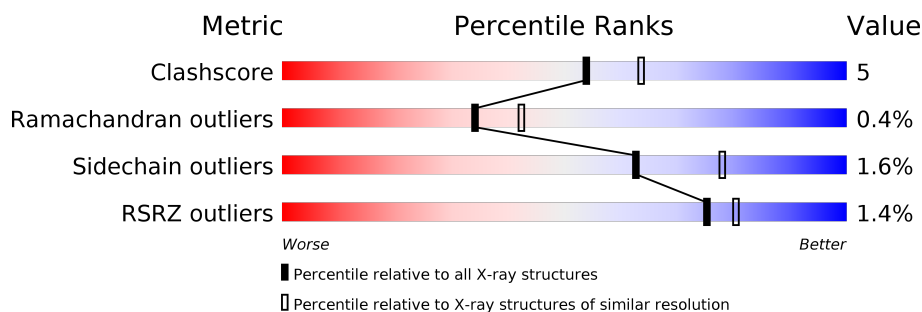
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.30 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))
Clashscore	141614	5643 (2.30-2.30)
Ramachandran outliers	138981	5575 (2.30-2.30)
Sidechain outliers	138945	5575 (2.30-2.30)
RSRZ outliers	127900	4938 (2.30-2.30)

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 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	199	 2% 76% 13% 9%
1	D	199	 80% 15% ..
1	G	199	 78% 10% 12%
2	B	14	 93% 7%
2	E	14	 7% 86% 14%
2	H	14	 79% 21%
3	C	15	 87% 7% 7%

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Mol	Chain	Length	Quality of chain
3	F	15	 67%33%
3	I	15	 73%27%
4	J	11	 73%27%
4	L	11	 64%36%
4	N	11	 64%36%
5	K	10	 90%10%
5	M	10	 10%90%10%
5	O	10	 90%10%

2 Entry composition

There are 7 unique types of molecules in this entry. The entry contains 7777 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 HOMING ENDONUCLEASE I-DMOI.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	181	Total	C	N	O	S	0	2	0
			1504	976	271	254	3			
1	D	192	Total	C	N	O	S	0	4	0
			1603	1034	292	274	3			
1	G	176	Total	C	N	O	S	0	5	0
			1480	958	265	254	3			

There are 36 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1	ALA	-	expression tag	UNP P21505
A	189	ALA	-	expression tag	UNP P21505
A	190	ALA	-	expression tag	UNP P21505
A	191	ALA	-	expression tag	UNP P21505
A	192	LEU	-	expression tag	UNP P21505
A	193	GLU	-	expression tag	UNP P21505
A	194	HIS	-	expression tag	UNP P21505
A	195	HIS	-	expression tag	UNP P21505
A	196	HIS	-	expression tag	UNP P21505
A	197	HIS	-	expression tag	UNP P21505
A	198	HIS	-	expression tag	UNP P21505
A	199	HIS	-	expression tag	UNP P21505
D	1	ALA	-	expression tag	UNP P21505
D	189	ALA	-	expression tag	UNP P21505
D	190	ALA	-	expression tag	UNP P21505
D	191	ALA	-	expression tag	UNP P21505
D	192	LEU	-	expression tag	UNP P21505
D	193	GLU	-	expression tag	UNP P21505
D	194	HIS	-	expression tag	UNP P21505
D	195	HIS	-	expression tag	UNP P21505
D	196	HIS	-	expression tag	UNP P21505
D	197	HIS	-	expression tag	UNP P21505
D	198	HIS	-	expression tag	UNP P21505

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Chain	Residue	Modelled	Actual	Comment	Reference
D	199	HIS	-	expression tag	UNP P21505
G	1	ALA	-	expression tag	UNP P21505
G	189	ALA	-	expression tag	UNP P21505
G	190	ALA	-	expression tag	UNP P21505
G	191	ALA	-	expression tag	UNP P21505
G	192	LEU	-	expression tag	UNP P21505
G	193	GLU	-	expression tag	UNP P21505
G	194	HIS	-	expression tag	UNP P21505
G	195	HIS	-	expression tag	UNP P21505
G	196	HIS	-	expression tag	UNP P21505
G	197	HIS	-	expression tag	UNP P21505
G	198	HIS	-	expression tag	UNP P21505
G	199	HIS	-	expression tag	UNP P21505

- Molecule 2 is a DNA chain called 5'-D(*GP*CP*CP*TP*TP*GP*CP*CP*GP*GP*GP*T
P*AP*A)-3'.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	14	Total	C	N	O	P	0	0	0
			285	136	53	83	13			
2	E	14	Total	C	N	O	P	0	0	0
			285	136	53	83	13			
2	H	14	Total	C	N	O	P	0	0	0
			285	136	53	83	13			

- Molecule 3 is a DNA chain called 5'-D(*CP*GP*CP*GP*CP*CP*GP*GP*AP*AP*CP*T
P*TP*AP*C)-3'.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	C	15	Total	C	N	O	P	0	0	0
			302	144	57	87	14			
3	F	15	Total	C	N	O	P	0	0	0
			302	144	57	87	14			
3	I	15	Total	C	N	O	P	0	0	0
			302	144	57	87	14			

- Molecule 4 is a DNA chain called 5'-D(*GP*TP*TP*CP*CP*GP*GP*CP*GP*CP*G)-3'.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	J	11	Total	C	N	O	P	0	0	0
			227	106	41	69	11			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	L	11	Total	C	N	O	P	0	0	0
			227	106	41	69	11			
4	N	11	Total	C	N	O	P	0	0	0
			227	106	41	69	11			

- Molecule 5 is a DNA chain called 5'-D(*CP*CP*GP*GP*CP*AP*AP*GP*GP*C)-3'.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	K	10	Total	C	N	O	P	0	0	0
			207	96	42	59	10			
5	M	10	Total	C	N	O	P	0	0	0
			207	96	42	59	10			
5	O	10	Total	C	N	O	P	0	0	0
			207	96	42	59	10			

- Molecule 6 is MANGANESE (II) ION (three-letter code: MN) (formula: Mn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	G	3	Total	Mn	0	0
			3	3		
6	A	3	Total	Mn	0	0
			3	3		
6	D	3	Total	Mn	0	0
			3	3		

- Molecule 7 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	A	30	Total	O	0	0
			30	30		
7	B	5	Total	O	0	0
			5	5		
7	C	5	Total	O	0	0
			5	5		
7	D	31	Total	O	0	0
			31	31		
7	E	2	Total	O	0	0
			2	2		
7	F	4	Total	O	0	0
			4	4		
7	G	27	Total	O	0	0
			27	27		

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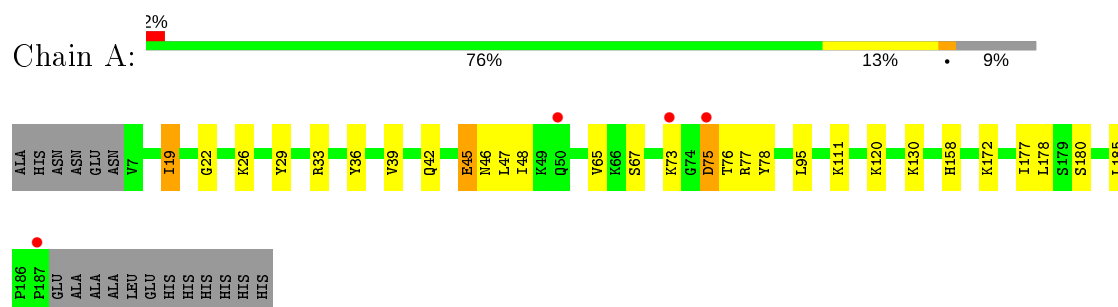
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	H	1	Total 1	O 1	0	0
7	I	5	Total 5	O 5	0	0
7	J	2	Total 2	O 2	0	0
7	L	6	Total 6	O 6	0	0

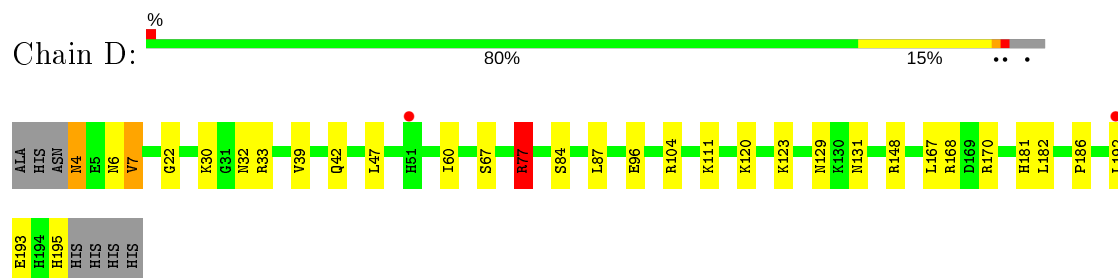
3 Residue-property plots [i](#)

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

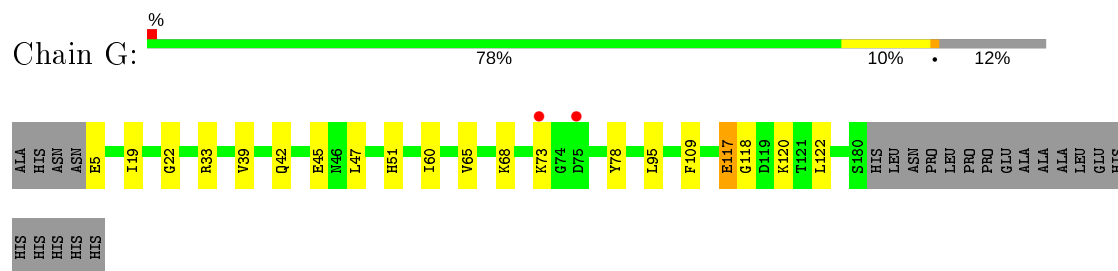
- Molecule 1: HOMING ENDONUCLEASE I-DMOI



- Molecule 1: HOMING ENDONUCLEASE I-DMOI



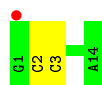
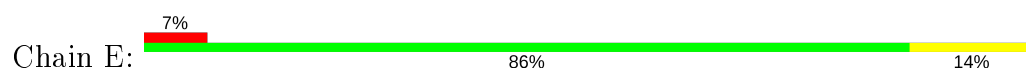
- Molecule 1: HOMING ENDONUCLEASE I-DMOI



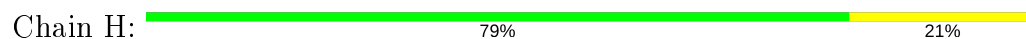
- Molecule 2: 5'-D(*GP*CP*CP*TP*TP*GP*CP*CP*GP*GP*GP*TP*AP*A)-3'



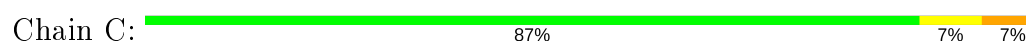
- Molecule 2: 5'-D(*GP*CP*CP*TP*TP*GP*CP*CP*GP*GP*GP*TP*AP*A)-3'



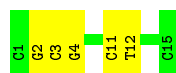
- Molecule 2: 5'-D(*GP*CP*CP*TP*TP*GP*CP*CP*GP*GP*GP*TP*AP*A)-3'



- Molecule 3: 5'-D(*CP*GP*CP*GP*CP*CP*GP*GP*AP*AP*CP*TP*TP*AP*C)-3'



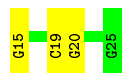
- Molecule 3: 5'-D(*CP*GP*CP*GP*CP*CP*GP*GP*AP*AP*CP*TP*TP*AP*C)-3'



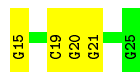
- Molecule 3: 5'-D(*CP*GP*CP*GP*CP*CP*GP*GP*AP*AP*CP*TP*TP*AP*C)-3'



- Molecule 4: 5'-D(*GP*TP*TP*CP*CP*GP*GP*CP*GP*CP*G)-3'



- Molecule 4: 5'-D(*GP*TP*TP*CP*CP*GP*GP*CP*GP*CP*G)-3'



- Molecule 4: 5'-D(*GP*TP*TP*CP*CP*GP*GP*CP*GP*CP*G)-3'

Chain N:  64% 36%




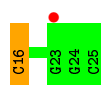
- Molecule 5: 5'-D(*CP*CP*GP*GP*CP*AP*AP*GP*GP*C)-3'

Chain K:  90% 10%




- Molecule 5: 5'-D(*CP*CP*GP*GP*CP*AP*AP*GP*GP*C)-3'

Chain M:  10% 90% 10%



- Molecule 5: 5'-D(*CP*CP*GP*GP*CP*AP*AP*GP*GP*C)-3'

Chain O:  90% 10%



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	106.80 Å 70.41 Å 107.17 Å 90.00° 119.77° 90.00°	Depositor
Resolution (Å)	46.27 – 2.30 46.27 – 2.30	Depositor EDS
% Data completeness (in resolution range)	95.8 (46.27-2.30) 95.6 (46.27-2.30)	Depositor EDS
R_{merge}	0.05	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.60 (at 2.29 Å)	Xtriage
Refinement program	PHENIX (PHENIX.REFINE)	Depositor
R, R_{free}	0.185 , 0.225 0.191 , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	wwPDB-VP
Wilson B-factor (Å ²)	50.0	Xtriage
Anisotropy	0.602	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 46.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	0.023 for -h-l,k,h 0.023 for l,k,-h-l 0.017 for h,-k,-h-l 0.018 for -h-l,-k,l 0.019 for l,-k,h	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	7777	wwPDB-VP
Average B, all atoms (Å ²)	55.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.86% 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: MN

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	0.46	0/1538	0.64	0/2069
1	D	0.42	0/1647	0.62	1/2219 (0.0%)
1	G	0.42	0/1519	0.56	0/2039
2	B	0.90	0/319	0.99	0/491
2	E	0.73	0/319	0.95	0/491
2	H	0.78	0/319	0.96	0/491
3	C	0.86	0/338	1.02	1/519 (0.2%)
3	F	0.86	0/338	0.93	0/519
3	I	0.88	0/338	1.02	1/519 (0.2%)
4	J	1.02	1/253 (0.4%)	1.02	0/387
4	L	1.04	1/253 (0.4%)	1.00	0/387
4	N	1.20	1/253 (0.4%)	0.98	0/387
5	K	0.99	1/232 (0.4%)	0.86	0/354
5	M	0.92	1/232 (0.4%)	0.79	0/354
5	O	0.96	1/232 (0.4%)	0.86	0/354
All	All	0.68	6/8130 (0.1%)	0.79	3/11580 (0.0%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	D	0	1

The worst 5 of 6 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	N	15	DG	OP3-P	-11.57	1.47	1.61
4	J	15	DG	OP3-P	-10.99	1.48	1.61
4	L	15	DG	OP3-P	-10.57	1.48	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	M	16	DC	OP3-P	-9.50	1.49	1.61
5	O	16	DC	OP3-P	-9.31	1.50	1.61

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	9	DA	O4'-C1'-N9	6.27	112.39	108.00
1	D	77	ARG	NE-CZ-NH1	5.50	123.05	120.30
3	I	9	DA	O4'-C1'-N9	5.08	111.55	108.00

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	D	4	ASN	Peptide

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	1504	0	1598	19	0
1	D	1603	0	1675	28	0
1	G	1480	0	1570	13	0
2	B	285	0	159	1	0
2	E	285	0	159	3	0
2	H	285	0	159	2	0
3	C	302	0	169	1	0
3	F	302	0	169	4	0
3	I	302	0	169	2	0
4	J	227	0	124	2	0
4	L	227	0	124	2	0
4	N	227	0	124	2	0
5	K	207	0	111	1	0
5	M	207	0	111	1	0
5	O	207	0	111	1	0
6	A	3	0	0	0	0
6	D	3	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	G	3	0	0	0	0
7	A	30	0	0	0	0
7	B	5	0	0	1	0
7	C	5	0	0	0	0
7	D	31	0	0	3	0
7	E	2	0	0	1	0
7	F	4	0	0	0	0
7	G	27	0	0	3	0
7	H	1	0	0	0	0
7	I	5	0	0	0	0
7	J	2	0	0	0	0
7	L	6	0	0	0	0
All	All	7777	0	6532	75	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 5.

The worst 5 of 75 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:D:104:ARG:HD3	1:D:182:LEU:HB3	1.59	0.84
1:D:111:LYS:HD3	1:D:186:PRO:HD3	1.61	0.82
1:G:5:GLU:N	7:G:2001:HOH:O	2.15	0.79
1:D:4:ASN:HB3	1:D:7:VAL:HG13	1.65	0.78
1:G:33:ARG:NH1	4:N:21:DG:O6	2.16	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	181/199 (91%)	175 (97%)	5 (3%)	1 (1%)	25	31
1	D	194/199 (98%)	188 (97%)	6 (3%)	0	100	100
1	G	179/199 (90%)	173 (97%)	5 (3%)	1 (1%)	25	31
All	All	554/597 (93%)	536 (97%)	16 (3%)	2 (0%)	34	42

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	75	ASP
1	G	122	LEU

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	166/178 (93%)	162 (98%)	4 (2%)	49	66
1	D	176/178 (99%)	173 (98%)	3 (2%)	60	76
1	G	163/178 (92%)	161 (99%)	2 (1%)	71	84
All	All	505/534 (95%)	496 (98%)	9 (2%)	62	75

5 of 9 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	D	7	VAL
1	G	117	GLU
1	D	77	ARG
1	A	45	GLU
1	D	32	ASN

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (5) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	50	GLN

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Mol	Chain	Res	Type
1	D	129	ASN
1	D	194	HIS
1	D	195	HIS
1	G	144	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 9 ligands modelled in this entry, 9 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, 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	181/199 (90%)	0.20	4 (2%) 62 69	33, 49, 72, 85	0
1	D	192/199 (96%)	0.14	2 (1%) 82 86	35, 53, 73, 92	0
1	G	176/199 (88%)	0.27	2 (1%) 80 85	35, 49, 71, 92	0
2	B	14/14 (100%)	-0.54	0 100 100	47, 54, 62, 63	0
2	E	14/14 (100%)	0.06	1 (7%) 16 21	44, 73, 84, 87	0
2	H	14/14 (100%)	-0.28	0 100 100	47, 62, 75, 75	0
3	C	15/15 (100%)	-0.20	0 100 100	41, 53, 71, 71	0
3	F	15/15 (100%)	-0.43	0 100 100	41, 53, 65, 67	0
3	I	15/15 (100%)	-0.18	0 100 100	46, 56, 66, 69	0
4	J	11/11 (100%)	-0.34	0 100 100	43, 52, 69, 71	0
4	L	11/11 (100%)	-0.45	0 100 100	42, 51, 58, 61	0
4	N	11/11 (100%)	-0.35	0 100 100	44, 61, 65, 66	0
5	K	10/10 (100%)	-0.46	0 100 100	45, 67, 71, 71	0
5	M	10/10 (100%)	0.71	1 (10%) 7 10	52, 87, 101, 102	0
5	O	10/10 (100%)	0.20	0 100 100	48, 75, 91, 93	0
All	All	699/747 (93%)	0.11	10 (1%) 75 80	33, 52, 76, 102	0

The worst 5 of 10 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	75	ASP	3.5
1	A	73	LYS	2.8
1	D	51[A]	HIS	2.8
1	G	75	ASP	2.7
2	E	1	DG	2.6

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. 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	B-factors(\AA^2)	Q<0.9
6	MN	G	1182	1/1	0.94	0.16	44,44,44,44	0
6	MN	A	1190	1/1	0.98	0.14	44,44,44,44	1
6	MN	D	1198	1/1	0.98	0.16	47,47,47,47	0
6	MN	G	1181	1/1	0.98	0.14	46,46,46,46	0
6	MN	D	1197	1/1	0.99	0.15	43,43,43,43	0
6	MN	D	1199	1/1	0.99	0.12	46,46,46,46	1
6	MN	A	1188	1/1	0.99	0.18	43,43,43,43	0
6	MN	G	1183	1/1	0.99	0.12	48,48,48,48	1
6	MN	A	1189	1/1	1.00	0.15	40,40,40,40	0

6.5 Other polymers [i](#)

There are no such residues in this entry.