



wwPDB X-ray Structure Validation Summary Report ⓘ

Nov 6, 2017 – 09:50 AM EST

PDB ID : 4J8T
Title : Engineered Digoxigenin binder DIG10.2
Authors : Stoddard, B.L.; Doyle, L.A.
Deposited on : unknown
Resolution : 2.05 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

<http://wwpdb.org/validation/2016/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
Mogul	:	1.7.2 (RC1), CSD as538be (2017)
Xtriage (Phenix)	:	1.9-1692
EDS	:	rb-20030345
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-20030345

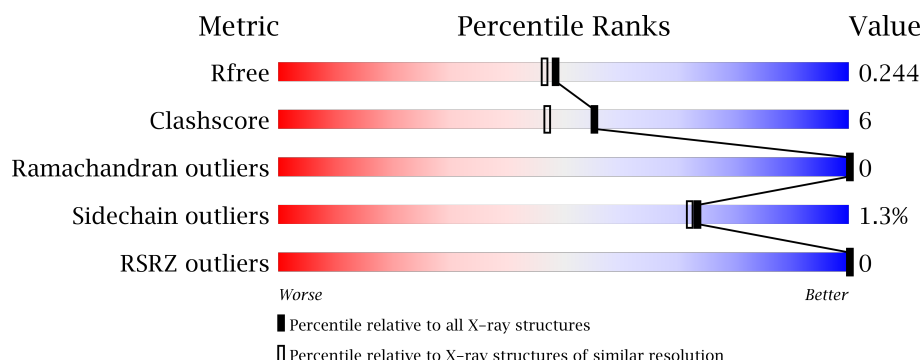
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.05 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	1316 (2.04-2.04)
Clashscore	112137	1394 (2.04-2.04)
Ramachandran outliers	110173	1383 (2.04-2.04)
Sidechain outliers	110143	1383 (2.04-2.04)
RSRZ outliers	101464	1319 (2.04-2.04)

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. 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	137	
1	B	137	
1	C	137	
1	D	137	

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 3891 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 Engineered Digoxigenin binder protein DIG10.2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	128	Total	C	N	O	S	0	0	0
			940	619	160	157	4			
1	B	121	Total	C	N	O	S	0	0	0
			915	605	153	155	2			
1	C	120	Total	C	N	O	S	0	0	0
			907	599	155	152	1			
1	D	126	Total	C	N	O	S	0	0	0
			931	615	158	154	4			

There are 88 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	7	VAL	LEU	ENGINEERED MUTATION	UNP Q9HYR3
A	10	ALA	SER	ENGINEERED MUTATION	UNP Q9HYR3
A	34	TYR	PHE	ENGINEERED MUTATION	UNP Q9HYR3
A	37	PRO	ALA	ENGINEERED MUTATION	UNP Q9HYR3
A	41	TYR	TRP	ENGINEERED MUTATION	UNP Q9HYR3
A	61	TYR	HIS	ENGINEERED MUTATION	UNP Q9HYR3
A	62	MET	LEU	ENGINEERED MUTATION	UNP Q9HYR3
A	64	ILE	VAL	ENGINEERED MUTATION	UNP Q9HYR3
A	90	HIS	ALA	ENGINEERED MUTATION	UNP Q9HYR3
A	99	ALA	GLN	ENGINEERED MUTATION	UNP Q9HYR3
A	117	LEU	ASP	ENGINEERED MUTATION	UNP Q9HYR3
A	119	PHE	TRP	ENGINEERED MUTATION	UNP Q9HYR3
A	124	VAL	HIS	ENGINEERED MUTATION	UNP Q9HYR3
A	127	PRO	ALA	ENGINEERED MUTATION	UNP Q9HYR3
A	130	LEU	GLY	ENGINEERED MUTATION	UNP Q9HYR3
A	131	GLU	VAL	ENGINEERED MUTATION	UNP Q9HYR3
A	132	HIS	-	EXPRESSION TAG	UNP Q9HYR3
A	133	HIS	-	EXPRESSION TAG	UNP Q9HYR3
A	134	HIS	-	EXPRESSION TAG	UNP Q9HYR3
A	135	HIS	-	EXPRESSION TAG	UNP Q9HYR3
A	136	HIS	-	EXPRESSION TAG	UNP Q9HYR3

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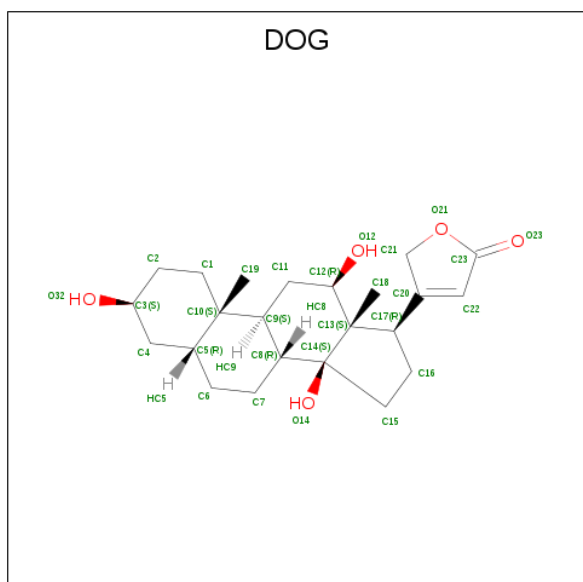
Chain	Residue	Modelled	Actual	Comment	Reference
A	137	HIS	-	EXPRESSION TAG	UNP Q9HYR3
B	7	VAL	LEU	ENGINEERED MUTATION	UNP Q9HYR3
B	10	ALA	SER	ENGINEERED MUTATION	UNP Q9HYR3
B	34	TYR	PHE	ENGINEERED MUTATION	UNP Q9HYR3
B	37	PRO	ALA	ENGINEERED MUTATION	UNP Q9HYR3
B	41	TYR	TRP	ENGINEERED MUTATION	UNP Q9HYR3
B	61	TYR	HIS	ENGINEERED MUTATION	UNP Q9HYR3
B	62	MET	LEU	ENGINEERED MUTATION	UNP Q9HYR3
B	64	ILE	VAL	ENGINEERED MUTATION	UNP Q9HYR3
B	90	HIS	ALA	ENGINEERED MUTATION	UNP Q9HYR3
B	99	ALA	GLN	ENGINEERED MUTATION	UNP Q9HYR3
B	117	LEU	ASP	ENGINEERED MUTATION	UNP Q9HYR3
B	119	PHE	TRP	ENGINEERED MUTATION	UNP Q9HYR3
B	124	VAL	HIS	ENGINEERED MUTATION	UNP Q9HYR3
B	127	PRO	ALA	ENGINEERED MUTATION	UNP Q9HYR3
B	130	LEU	GLY	ENGINEERED MUTATION	UNP Q9HYR3
B	131	GLU	VAL	ENGINEERED MUTATION	UNP Q9HYR3
B	132	HIS	-	EXPRESSION TAG	UNP Q9HYR3
B	133	HIS	-	EXPRESSION TAG	UNP Q9HYR3
B	134	HIS	-	EXPRESSION TAG	UNP Q9HYR3
B	135	HIS	-	EXPRESSION TAG	UNP Q9HYR3
B	136	HIS	-	EXPRESSION TAG	UNP Q9HYR3
B	137	HIS	-	EXPRESSION TAG	UNP Q9HYR3
C	7	VAL	LEU	ENGINEERED MUTATION	UNP Q9HYR3
C	10	ALA	SER	ENGINEERED MUTATION	UNP Q9HYR3
C	34	TYR	PHE	ENGINEERED MUTATION	UNP Q9HYR3
C	37	PRO	ALA	ENGINEERED MUTATION	UNP Q9HYR3
C	41	TYR	TRP	ENGINEERED MUTATION	UNP Q9HYR3
C	61	TYR	HIS	ENGINEERED MUTATION	UNP Q9HYR3
C	62	MET	LEU	ENGINEERED MUTATION	UNP Q9HYR3
C	64	ILE	VAL	ENGINEERED MUTATION	UNP Q9HYR3
C	90	HIS	ALA	ENGINEERED MUTATION	UNP Q9HYR3
C	99	ALA	GLN	ENGINEERED MUTATION	UNP Q9HYR3
C	117	LEU	ASP	ENGINEERED MUTATION	UNP Q9HYR3
C	119	PHE	TRP	ENGINEERED MUTATION	UNP Q9HYR3
C	124	VAL	HIS	ENGINEERED MUTATION	UNP Q9HYR3
C	127	PRO	ALA	ENGINEERED MUTATION	UNP Q9HYR3
C	130	LEU	GLY	ENGINEERED MUTATION	UNP Q9HYR3
C	131	GLU	VAL	ENGINEERED MUTATION	UNP Q9HYR3
C	132	HIS	-	EXPRESSION TAG	UNP Q9HYR3
C	133	HIS	-	EXPRESSION TAG	UNP Q9HYR3
C	134	HIS	-	EXPRESSION TAG	UNP Q9HYR3

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Chain	Residue	Modelled	Actual	Comment	Reference
C	135	HIS	-	EXPRESSION TAG	UNP Q9HYR3
C	136	HIS	-	EXPRESSION TAG	UNP Q9HYR3
C	137	HIS	-	EXPRESSION TAG	UNP Q9HYR3
D	7	VAL	LEU	ENGINEERED MUTATION	UNP Q9HYR3
D	10	ALA	SER	ENGINEERED MUTATION	UNP Q9HYR3
D	34	TYR	PHE	ENGINEERED MUTATION	UNP Q9HYR3
D	37	PRO	ALA	ENGINEERED MUTATION	UNP Q9HYR3
D	41	TYR	TRP	ENGINEERED MUTATION	UNP Q9HYR3
D	61	TYR	HIS	ENGINEERED MUTATION	UNP Q9HYR3
D	62	MET	LEU	ENGINEERED MUTATION	UNP Q9HYR3
D	64	ILE	VAL	ENGINEERED MUTATION	UNP Q9HYR3
D	90	HIS	ALA	ENGINEERED MUTATION	UNP Q9HYR3
D	99	ALA	GLN	ENGINEERED MUTATION	UNP Q9HYR3
D	117	LEU	ASP	ENGINEERED MUTATION	UNP Q9HYR3
D	119	PHE	TRP	ENGINEERED MUTATION	UNP Q9HYR3
D	124	VAL	HIS	ENGINEERED MUTATION	UNP Q9HYR3
D	127	PRO	ALA	ENGINEERED MUTATION	UNP Q9HYR3
D	130	LEU	GLY	ENGINEERED MUTATION	UNP Q9HYR3
D	131	GLU	VAL	ENGINEERED MUTATION	UNP Q9HYR3
D	132	HIS	-	EXPRESSION TAG	UNP Q9HYR3
D	133	HIS	-	EXPRESSION TAG	UNP Q9HYR3
D	134	HIS	-	EXPRESSION TAG	UNP Q9HYR3
D	135	HIS	-	EXPRESSION TAG	UNP Q9HYR3
D	136	HIS	-	EXPRESSION TAG	UNP Q9HYR3
D	137	HIS	-	EXPRESSION TAG	UNP Q9HYR3

- Molecule 2 is DIGOXIGENIN (three-letter code: DOG) (formula: $C_{23}H_{34}O_5$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total	C	O	0	0
			28	23	5		
2	B	1	Total	C	O	0	0
			28	23	5		
2	C	1	Total	C	O	0	0
			28	23	5		
2	D	1	Total	C	O	0	0
			28	23	5		


- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	22	Total	O	0	0
			22	22		
3	B	22	Total	O	0	0
			22	22		
3	C	24	Total	O	0	0
			24	24		
3	D	18	Total	O	0	0
			18	18		

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: Engineered Digoxigenin binder protein DIG10.2

Chain A: 




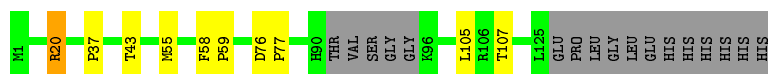
- Molecule 1: Engineered Digoxigenin binder protein DIG10.2

Chain B: 




- Molecule 1: Engineered Digoxigenin binder protein DIG10.2

Chain C: 



- Molecule 1: Engineered Digoxigenin binder protein DIG10.2

Chain D: 



4 Data and refinement statistics

Property	Value	Source
Space group	P 65	Depositor
Cell constants a, b, c, α , β , γ	74.37Å 74.37Å 161.10Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	41.24 – 2.05 41.24 – 2.05	Depositor EDS
% Data completeness (in resolution range)	96.4 (41.24-2.05) 96.5 (41.24-2.05)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.50 (at 2.05Å)	Xtriage
Refinement program	REFMAC, PHENIX 1.7_650	Depositor
R, R_{free}	0.211 , 0.246 0.211 , 0.244	Depositor DCC
R_{free} test set	1529 reflections (5.29%)	DCC
Wilson B-factor (Å ²)	32.5	Xtriage
Anisotropy	0.015	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 36.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.51$, $\langle L^2 \rangle = 0.35$	Xtriage
Estimated twinning fraction	0.490 for h,-h-k,-l	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	3891	wwPDB-VP
Average B, all atoms (Å ²)	28.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.19% 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: DOG

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	0.39	0/969	0.53	0/1324
1	B	0.40	0/943	0.52	0/1290
1	C	0.40	0/935	0.55	0/1277
1	D	0.40	0/960	0.52	0/1307
All	All	0.40	0/3807	0.53	0/5198

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	940	0	844	9	0
1	B	915	0	837	12	0
1	C	907	0	825	13	0
1	D	931	0	835	10	0
2	A	28	0	32	0	0
2	B	28	0	31	0	0
2	C	28	0	33	0	0
2	D	28	0	32	0	0
3	A	22	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	B	22	0	0	0	0
3	C	24	0	0	1	0
3	D	18	0	0	0	0
All	All	3891	0	3469	43	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 6.

The worst 5 of 43 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:37:PRO:HG3	1:B:43:THR:CG2	1.97	0.94
1:C:37:PRO:HG3	1:C:43:THR:HG22	1.50	0.92
1:B:37:PRO:HG3	1:B:43:THR:HG22	1.55	0.88
1:C:37:PRO:HG3	1:C:43:THR:CG2	2.05	0.85
1:C:105:LEU:CD2	1:C:107:THR:HG23	2.10	0.80

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	126/137 (92%)	126 (100%)	0	0	100	100
1	B	117/137 (85%)	117 (100%)	0	0	100	100
1	C	116/137 (85%)	116 (100%)	0	0	100	100
1	D	122/137 (89%)	122 (100%)	0	0	100	100
All	All	481/548 (88%)	481 (100%)	0	0	100	100

There are no Ramachandran outliers to report.

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	78/117 (67%)	76 (97%)	2 (3%)	51	44
1	B	82/117 (70%)	82 (100%)	0	100	100
1	C	79/117 (68%)	78 (99%)	1 (1%)	73	72
1	D	79/117 (68%)	78 (99%)	1 (1%)	73	72
All	All	318/468 (68%)	314 (99%)	4 (1%)	73	72

All (4) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	65	ARG
1	A	105	LEU
1	C	20	ARG
1	D	65	ARG

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

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

4 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	DOG	A	201	-	31,32,32	3.12	13 (41%)	47,53,53	1.12	3 (6%)
2	DOG	B	201	-	31,32,32	3.11	15 (48%)	47,53,53	1.44	6 (12%)
2	DOG	C	201	-	31,32,32	1.15	5 (16%)	47,53,53	1.97	9 (19%)
2	DOG	D	201	-	31,32,32	3.03	14 (45%)	47,53,53	1.13	5 (10%)

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	DOG	A	201	-	-	0/4/81/81	0/5/5/5
2	DOG	B	201	-	-	0/4/81/81	0/5/5/5
2	DOG	C	201	-	-	0/4/81/81	0/5/5/5
2	DOG	D	201	-	-	0/4/81/81	0/5/5/5

The worst 5 of 47 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	201	DOG	O14-C14	-9.20	1.28	1.44
2	A	201	DOG	O14-C14	-7.98	1.30	1.44
2	A	201	DOG	O21-C21	-7.53	1.30	1.44
2	B	201	DOG	O12-C12	-7.05	1.31	1.43
2	D	201	DOG	O14-C14	-7.00	1.31	1.44

The worst 5 of 23 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	201	DOG	C19-C10-C9	-4.51	104.71	111.16
2	B	201	DOG	C9-C11-C12	-4.00	109.05	114.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	201	DOG	C11-C9-C10	-3.91	109.60	113.74
2	A	201	DOG	C9-C11-C12	-3.28	110.01	114.32
2	B	201	DOG	C10-C9-C8	-2.52	108.16	112.00

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, 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	128/137 (93%)	-0.73	0 100 100	18, 28, 41, 53	0
1	B	121/137 (88%)	-0.72	0 100 100	18, 28, 38, 46	0
1	C	120/137 (87%)	-0.71	0 100 100	19, 28, 37, 44	0
1	D	126/137 (91%)	-0.70	0 100 100	18, 28, 40, 52	0
All	All	495/548 (90%)	-0.72	0 100 100	18, 28, 40, 53	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 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, 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	LLDF	B-factors(Å ²)	Q<0.9
2	DOG	B	201	28/28	0.95	0.08	-0.04	22,28,37,51	0
2	DOG	C	201	28/28	0.94	0.08	-0.36	21,28,39,48	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
2	DOG	D	201	28/28	0.95	0.08	-0.70	20,26,35,40	0
2	DOG	A	201	28/28	0.95	0.07	-0.80	20,26,33,41	0

6.5 Other polymers [i](#)

There are no such residues in this entry.