



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 1, 2016 – 11:38 AM GMT

PDB ID : 3PLF
Title : Reverse Binding Mode of MetRD peptide complexed with c-Cbl TKB domain
Authors : Sun, Q.; Sivaraman, J.
Deposited on : 2010-11-15
Resolution : 1.92 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
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 (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

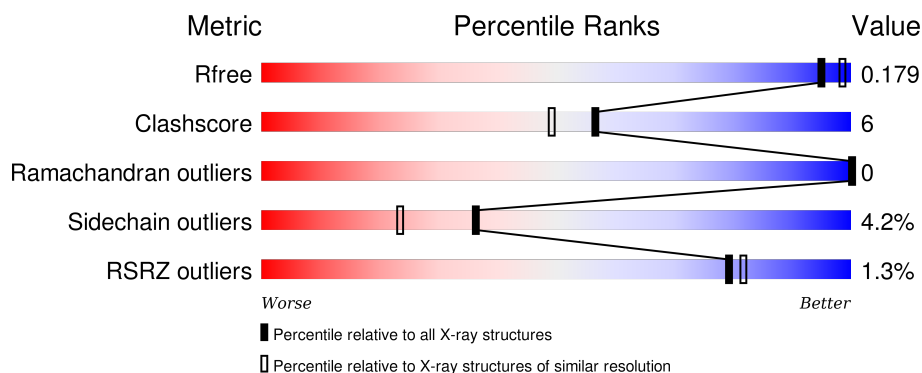
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.92 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	5832 (1.94-1.90)
Clashscore	102246	6540 (1.94-1.90)
Ramachandran outliers	100387	6464 (1.94-1.90)
Sidechain outliers	100360	6465 (1.94-1.90)
RSRZ outliers	91569	5846 (1.94-1.90)

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	11	<div> <div>27%</div> <div>9%</div> <div>64%</div> </div>
1	C	11	<div> <div>9%</div> <div>18%</div> <div>9%</div> <div>9%</div> <div>64%</div> </div>
2	B	329	<div> <div>2%</div> <div>76%</div> <div>14%</div> <div>•</div> <div>9%</div> </div>
2	D	329	<div> <div>81%</div> <div>9%</div> <div>•</div> <div>9%</div> </div>

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 5612 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 MetRD peptide.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	4	Total	C	N	O	P	0	0	0
			40	22	7	10	1			
1	C	4	Total	C	N	O	P	0	0	0
			40	22	7	10	1			

- Molecule 2 is a protein called E3 ubiquitin-protein ligase CBL.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	301	Total	C	N	O	S	0	0	0
			2471	1601	421	436	13			
2	D	301	Total	C	N	O	S	0	0	0
			2471	1601	421	436	13			

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	23	GLY	-	EXPRESSION TAG	UNP P22681
B	24	SER	-	EXPRESSION TAG	UNP P22681
D	23	GLY	-	EXPRESSION TAG	UNP P22681
D	24	SER	-	EXPRESSION TAG	UNP P22681

- Molecule 3 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	B	1	Total	Ca	0	0
			1	1		
3	D	1	Total	Ca	0	0
			1	1		

- Molecule 4 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

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

- Molecule 5 is water.

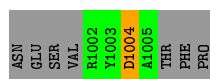
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	5	Total 5	O 5	0	0
5	B	255	Total 255	O 255	0	0
5	C	5	Total 5	O 5	0	0
5	D	319	Total 319	O 319	0	0

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.

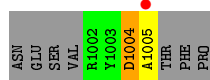
• Molecule 1: MetRD peptide

Chain A: 




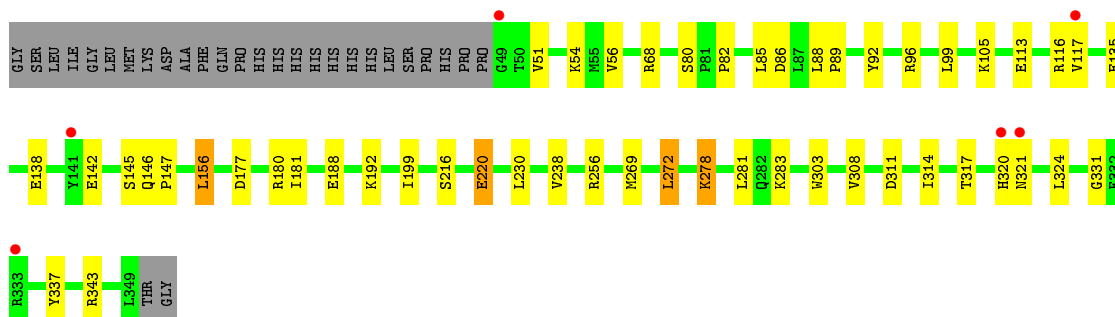
• Molecule 1: MetRD peptide

Chain C: 




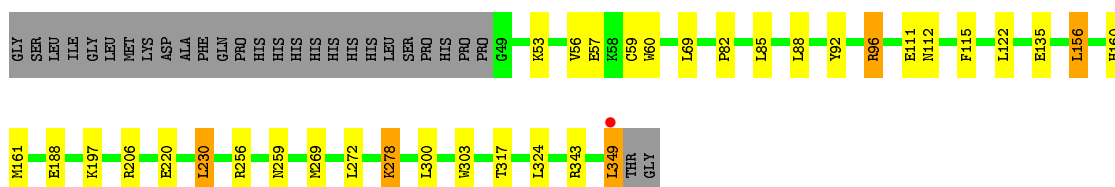
• Molecule 2: E3 ubiquitin-protein ligase CBL

Chain B: 



• Molecule 2: E3 ubiquitin-protein ligase CBL

Chain D: 



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	52.74Å 104.48Å 60.55Å 90.00° 90.19° 90.00°	Depositor
Resolution (Å)	47.08 – 1.92 47.08 – 1.92	Depositor EDS
% Data completeness (in resolution range)	97.4 (47.08-1.92) 97.4 (47.08-1.92)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.66 (at 1.92Å)	Xtriage
Refinement program	REFMAC 5.5.0102	Depositor
R, R_{free}	0.159 , 0.180 0.158 , 0.179	Depositor DCC
R_{free} test set	2462 reflections (5.34%)	DCC
Wilson B-factor (Å ²)	21.3	Xtriage
Anisotropy	0.303	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 50.7	EDS
Estimated twinning fraction	0.035 for h,-k,-l	Xtriage
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.34$	Xtriage
Outliers	1 of 48525 reflections (0.002%)	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	5612	wwPDB-VP
Average B, all atoms (Å ²)	26.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 38.14 % of the origin peak, indicating pseudo translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo translational symmetry is equal to 3.8553e-04. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

¹Intensities estimated from amplitudes.

²Theoretical 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 ⓘ

5.1 Standard geometry ⓘ

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

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	1.09	0/22	1.41	0/26
1	C	1.32	0/22	1.29	0/26
2	B	1.00	1/2536 (0.0%)	0.84	3/3423 (0.1%)
2	D	1.05	3/2536 (0.1%)	0.83	1/3423 (0.0%)
All	All	1.03	4/5116 (0.1%)	0.84	4/6898 (0.1%)

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	D	220	GLU	CD-OE2	-9.31	1.15	1.25
2	B	220	GLU	CD-OE2	-7.44	1.17	1.25
2	D	59	CYS	CB-SG	-7.28	1.69	1.82
2	D	188	GLU	CD-OE2	-5.99	1.19	1.25

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	343	ARG	NE-CZ-NH2	-7.32	116.64	120.30
2	B	311	ASP	CB-CG-OD1	5.75	123.48	118.30
2	D	230	LEU	CB-CG-CD1	5.52	120.38	111.00
2	B	177	ASP	CB-CG-OD2	-5.31	113.52	118.30

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	40	0	28	2	0
1	C	40	0	28	1	0
2	B	2471	0	2481	28	0
2	D	2471	0	2481	31	0
3	B	1	0	0	0	0
3	D	1	0	0	0	0
4	B	3	0	0	0	0
4	D	1	0	0	0	0
5	A	5	0	0	1	0
5	B	255	0	0	5	0
5	C	5	0	0	0	0
5	D	319	0	0	14	0
All	All	5612	0	5018	61	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.

All (61) 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)
2:D:317:THR:HG22	5:D:615:HOH:O	1.50	1.11
2:D:92:TYR:CZ	2:D:96:ARG:HD2	1.92	1.05
2:D:92:TYR:OH	2:D:96:ARG:HD2	1.71	0.88
2:B:86:ASP:OD2	5:B:583:HOH:O	1.91	0.88
2:D:112:ASN:HD22	2:D:115:PHE:H	1.23	0.87
2:D:96:ARG:HB3	2:D:96:ARG:HH11	1.41	0.85
2:D:96:ARG:HB3	2:D:96:ARG:NH1	1.96	0.79
2:D:349:LEU:HB2	5:D:371:HOH:O	1.89	0.70
2:D:349:LEU:HD12	5:D:371:HOH:O	1.96	0.65
2:D:96:ARG:CB	2:D:96:ARG:HH11	2.12	0.63
2:D:92:TYR:CZ	2:D:96:ARG:CD	2.78	0.62
2:B:256:ARG:HG3	2:B:256:ARG:HH11	1.67	0.59
2:B:269:MET:HB3	2:B:272:LEU:HD22	1.85	0.58
2:D:206:ARG:HD3	5:D:556:HOH:O	2.03	0.57
2:D:197:LYS:CE	5:D:577:HOH:O	2.53	0.56
2:D:197:LYS:HE3	5:D:577:HOH:O	2.06	0.56
2:D:317:THR:CG2	5:D:615:HOH:O	2.29	0.56
2:B:216:SER:N	2:B:220:GLU:OE1	2.34	0.55
2:B:113:GLU:O	2:B:117:VAL:HG23	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:117:VAL:HG23	5:B:499:HOH:O	2.08	0.52
2:B:68:ARG:HD3	5:B:573:HOH:O	2.10	0.52
1:A:1004:ASP:OD2	5:A:557:HOH:O	2.19	0.51
2:D:160:HIS:HE1	5:D:354:HOH:O	1.94	0.51
2:B:303:TRP:CE2	2:B:324:LEU:HD22	2.45	0.51
2:B:283:LYS:HB3	5:B:580:HOH:O	2.11	0.51
2:B:117:VAL:CG2	5:B:499:HOH:O	2.59	0.51
2:B:256:ARG:HG3	2:B:256:ARG:NH1	2.25	0.49
2:D:259:ASN:HB2	5:D:563:HOH:O	2.12	0.48
2:D:303:TRP:CE2	2:D:324:LEU:HD22	2.48	0.48
2:B:281:LEU:CB	2:B:314:ILE:HD12	2.43	0.47
2:B:278:LYS:HB2	2:B:278:LYS:HE3	1.50	0.47
2:B:181:ILE:HD11	2:B:238:VAL:HG23	1.98	0.45
2:B:82:PRO:HG3	2:B:156:LEU:HD13	1.98	0.45
2:B:92:TYR:OH	2:B:96:ARG:HD2	2.16	0.45
2:D:82:PRO:HG3	2:D:156:LEU:HD13	2.00	0.44
2:B:51:VAL:HG23	2:B:116:ARG:HG2	2.00	0.44
2:B:56:VAL:HG11	2:B:99:LEU:HD11	1.99	0.44
2:D:88:LEU:HD23	2:D:88:LEU:HA	1.83	0.44
2:B:117:VAL:HG11	2:B:199:ILE:CD1	2.48	0.43
2:D:343:ARG:NH2	5:D:497:HOH:O	2.40	0.43
2:D:56:VAL:HG12	2:D:60:TRP:CE2	2.53	0.43
2:B:281:LEU:HB3	2:B:314:ILE:HD12	2.00	0.43
2:D:343:ARG:HD2	5:D:497:HOH:O	2.19	0.43
2:D:96:ARG:NH1	5:D:571:HOH:O	2.26	0.43
2:B:146:GLN:N	2:B:147:PRO:CD	2.82	0.43
2:B:188:GLU:HG2	2:B:192:LYS:HE3	2.01	0.43
2:D:112:ASN:ND2	2:D:115:PHE:H	2.03	0.42
2:D:256:ARG:HH11	2:D:256:ARG:HG3	1.83	0.42
2:D:160:HIS:HD2	5:D:357:HOH:O	2.01	0.42
2:B:331:GLY:HA3	2:B:337:TYR:CD2	2.55	0.42
2:B:142:GLU:HB2	2:B:145:SER:HB3	2.01	0.41
1:A:1004:ASP:O	2:B:317:THR:HG22	2.20	0.41
2:B:308:VAL:HG22	2:B:314:ILE:HD13	2.02	0.41
2:D:269:MET:HB3	2:D:272:LEU:HD22	2.02	0.41
2:B:88:LEU:HB2	2:B:89:PRO:HD3	2.02	0.41
1:C:1004:ASP:O	1:C:1005:ALA:C	2.58	0.41
2:B:320:HIS:O	2:B:321:ASN:HB2	2.20	0.41
2:D:53:LYS:O	2:D:57:GLU:HG3	2.21	0.41
2:D:122:LEU:HA	2:D:161:MET:HE1	2.03	0.41
2:D:278:LYS:NZ	5:D:385:HOH:O	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:278:LYS:HB2	2:D:278:LYS:HE3	1.68	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	1/11 (9%)	0	1 (100%)	0	100	100
1	C	1/11 (9%)	0	1 (100%)	0	100	100
2	B	299/329 (91%)	291 (97%)	8 (3%)	0	100	100
2	D	299/329 (91%)	294 (98%)	5 (2%)	0	100	100
All	All	600/680 (88%)	585 (98%)	15 (2%)	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	2/9 (22%)	1 (50%)	1 (50%)	0	0
1	C	2/9 (22%)	1 (50%)	1 (50%)	0	0
2	B	269/293 (92%)	258 (96%)	11 (4%)	37	24
2	D	269/293 (92%)	259 (96%)	10 (4%)	41	28

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
All	All	542/604 (90%)	519 (96%)	23 (4%)	36	23

All (23) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1004	ASP
2	B	54	LYS
2	B	80	SER
2	B	85	LEU
2	B	105	LYS
2	B	135	GLU
2	B	138	GLU
2	B	156	LEU
2	B	180	ARG
2	B	230	LEU
2	B	272	LEU
2	B	278	LYS
1	C	1004	ASP
2	D	69	LEU
2	D	85	LEU
2	D	96	ARG
2	D	111	GLU
2	D	135	GLU
2	D	156	LEU
2	D	230	LEU
2	D	278	LYS
2	D	300	LEU
2	D	349	LEU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (9) such sidechains are listed below:

Mol	Chain	Res	Type
2	B	94	HIS
2	B	160	HIS
2	B	344	ASN
2	D	94	HIS
2	D	112	ASN
2	D	160	HIS
2	D	249	GLN
2	D	321	ASN
2	D	344	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

2 non-standard protein/DNA/RNA residues 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	$\# Z > 2$
1	PTR	A	1003	1	14,16,17	1.92	1 (7%)	18,22,24	0.91	1 (5%)
1	PTR	C	1003	1	14,16,17	1.96	2 (14%)	18,22,24	0.90	1 (5%)

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
1	PTR	A	1003	1	-	0/9/11/13	0/1/1/1
1	PTR	C	1003	1	-	0/9/11/13	0/1/1/1

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	1003	PTR	OH-CZ	-6.11	1.25	1.40
1	A	1003	PTR	OH-CZ	-5.84	1.26	1.40
1	C	1003	PTR	P-O3P	-2.03	1.47	1.54

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	1003	PTR	O-C-CA	-2.15	119.88	125.49
1	A	1003	PTR	O-C-CA	-2.08	120.06	125.49

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 6 ligands modelled in this entry, 6 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, 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	3/11 (27%)	0.31	0 100 100	32, 32, 46, 50	0
1	C	3/11 (27%)	2.02	1 (33%) 0 0	29, 29, 47, 52	0
2	B	301/329 (91%)	-0.25	6 (1%) 68 72	12, 25, 51, 63	0
2	D	301/329 (91%)	-0.35	1 (0%) 94 94	10, 21, 47, 59	0
All	All	608/680 (89%)	-0.29	8 (1%) 79 82	10, 23, 50, 63	0

All (8) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	1005	ALA	4.8
2	B	49	GLY	3.3
2	B	333	ARG	2.8
2	B	321	ASN	2.5
2	B	320	HIS	2.5
2	B	117	VAL	2.4
2	D	349	LEU	2.2
2	B	141	TYR	2.1

6.2 Non-standard residues in protein, DNA, RNA chains [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
1	PTR	A	1003	16/17	0.97	0.09	-	19,22,35,36	0
1	PTR	C	1003	16/17	0.97	0.09	-	15,20,32,33	0

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(\AA^2)	Q<0.9
4	CL	B	354	1/1	0.96	0.05	-1.14	30,30,30,30	0
3	CA	D	1	1/1	0.99	0.05	-1.69	30,30,30,30	0
3	CA	B	1	1/1	0.99	0.05	-2.64	30,30,30,30	0
4	CL	B	352	1/1	0.90	0.18	-	30,30,30,30	0
4	CL	D	352	1/1	0.76	0.14	-	30,30,30,30	0
4	CL	B	353	1/1	0.87	0.12	-	30,30,30,30	0

6.5 Other polymers [i](#)

There are no such residues in this entry.