



Preliminary Full wwPDB X-ray Structure Validation Report ⓘ

Jul 26, 2021 – 06:30 PM EDT

Deposition ID : D_1000258528

This is a Preliminary Full wwPDB X-ray Structure Validation Report.

This report is produced by the wwPDB Deposition System during initial deposition but before annotation of the structure.

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
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtrriage (Phenix)	:	1.13
EDS	:	2.22
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)	:	2.22

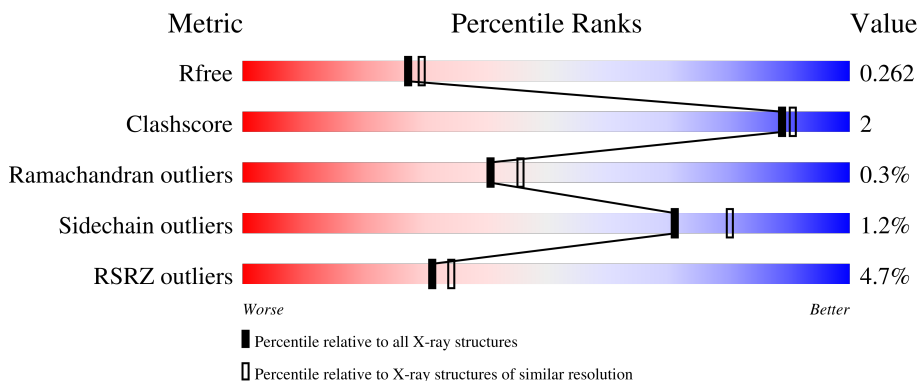
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.25 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	1377 (2.26-2.26)
Clashscore	141614	1487 (2.26-2.26)
Ramachandran outliers	138981	1449 (2.26-2.26)
Sidechain outliers	138945	1450 (2.26-2.26)
RSRZ outliers	127900	1356 (2.26-2.26)

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 ≥ 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	AAA	384	 3% (Poor fit), 94% (0-1 outliers), 6% (2-3 outliers)
1	BBB	384	 3% (Poor fit), 92% (0-1 outliers), 8% (2-3 outliers)
2	CCC	379	 7% (Poor fit), 94% (0-1 outliers), 6% (2-3 outliers)
3	DDD	381	 6% (Poor fit), 94% (0-1 outliers), 6% (2-3 outliers)

2 Entry composition [i](#)

There are 6 unique types of molecules in this entry. The entry contains 11224 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.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
			Total	C	N	O	P				S
1	AAA	384	Total 2821	C 1796	N 476	O 536	P 1	S 12	0	1	0
1	BBB	384	Total 2818	C 1796	N 485	O 524	P 1	S 12	0	1	0

- Molecule 2 is a protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
			Total	C	N	O	P				S
2	CCC	379	Total 2759	C 1765	N 470	O 513	P 1	S 10	0	1	0

- Molecule 3 is a protein called 3-PYRIDIN-4-YL-2,4-DIHYDRO-INDENO[1,2-C.]PYRAZOLE.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
			Total	C	N	O	P				S
3	DDD	381	Total 2770	C 1769	N 476	O 512	P 1	S 12	0	1	0

- Molecule 4 is a ligand with the chemical component id `LIG` but its atom names do not match the existing wwPDB Chemical Component Dictionary definition for `LIG`. Consequently no firm identification of ligand chemistry can be made. Once the structure is annotated then an identification and diagram will be given here.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	
			Total	C	Cl	N			O
4	AaA	1	Total 16	C 11	Cl 1	N 2	O 2	0	0
4	BaB	1	Total 16	C 11	Cl 1	N 2	O 2	0	0

- Molecule 5 is SODIUM ION (three-letter code: `NA`) (formula: `Na`).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	EEE	1	Total Na 1 1	0	0
5	EaE	1	Total Na 1 1	0	0
5	EbE	1	Total Na 1 1	0	0
5	EcE	1	Total Na 1 1	0	0

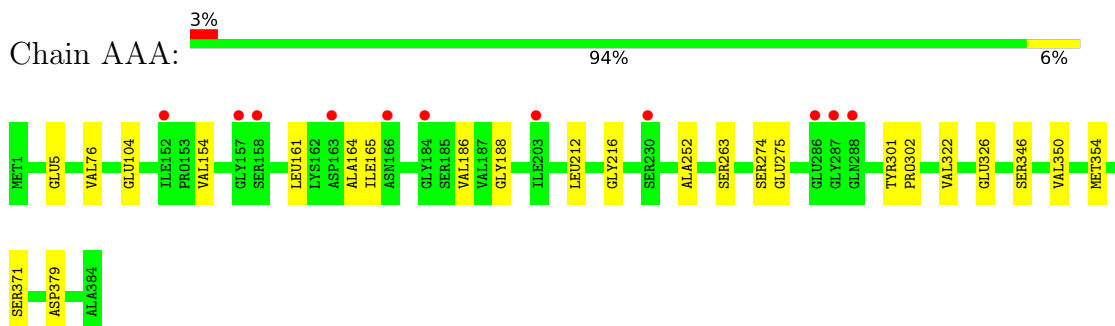
- Molecule 6 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	FFF	20	Total O 20 20	0	0

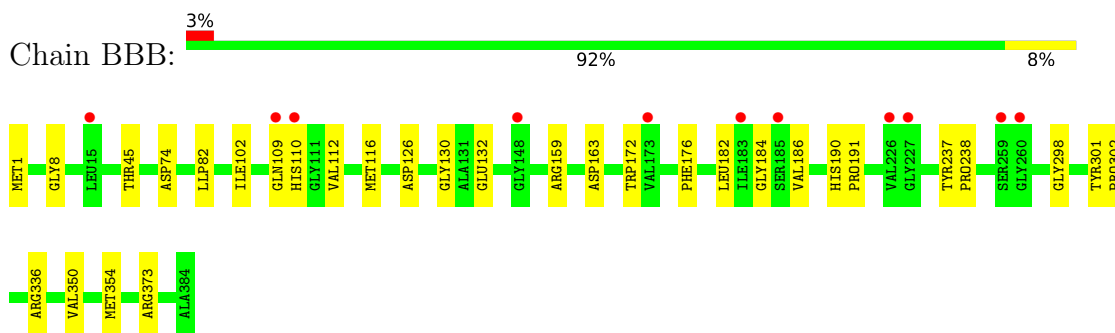
3 Residue-property plots [i](#)

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.

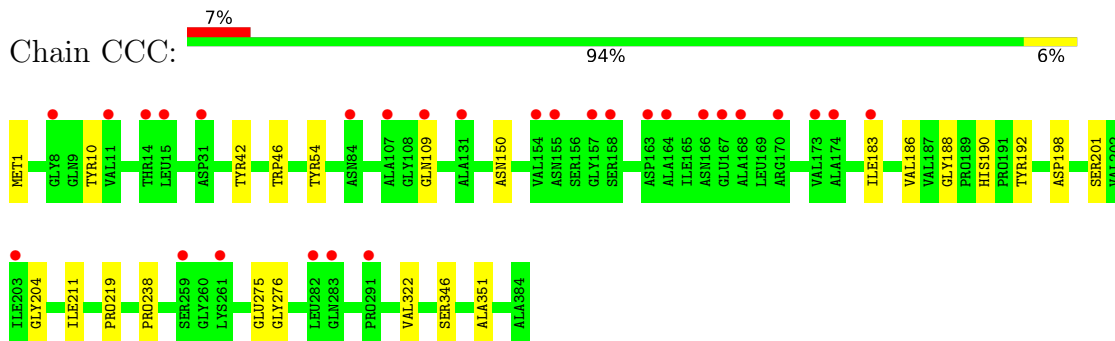
- Molecule 1:



- Molecule 1:

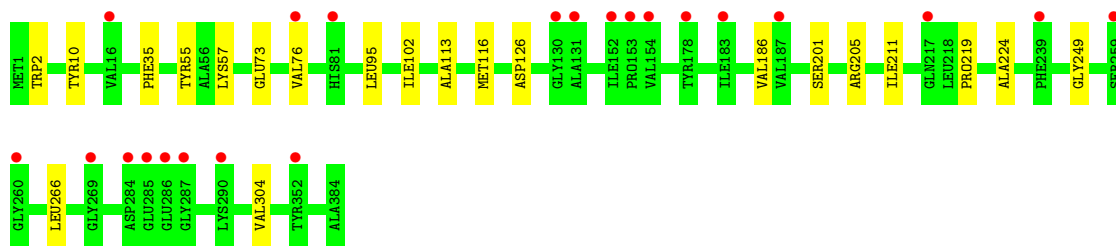


- Molecule 2:



- Molecule 3: 3-PYRIDIN-4-YL-2,4-DIHYDRO-INDENO[1,2-C.]PYRAZOLE





4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	56.16Å 81.20Å 321.01Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	40.00 – 2.25 39.93 – 2.25	Depositor EDS
% Data completeness (in resolution range)	98.4 (40.00-2.25) 98.5 (39.93-2.25)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.55 (at 2.24Å)	Xtrriage
Refinement program	REFMAC 5.8.0267	Depositor
R, R_{free}	0.227 , 0.267 0.230 , 0.262	Depositor DCC
R_{free} test set	3482 reflections (4.98%)	wwPDB-VP
Wilson B-factor (Å ²)	55.1	Xtrriage
Anisotropy	0.311	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.27 , 34.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	11224	wwPDB-VP
Average B, all atoms (Å ²)	71.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.00% 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: LIG, LLP, NA

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	AAA	0.65	0/2857	0.71	0/3889
1	BBB	0.67	0/2854	0.71	0/3880
2	CCC	0.67	0/2794	0.71	0/3806
3	DDD	0.68	0/2805	0.71	0/3816
All	All	0.67	0/11310	0.71	0/15391

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	AAA	2821	0	2666	10	0
1	BBB	2818	0	2690	13	0
2	CCC	2759	0	2618	10	0
3	DDD	2770	0	2625	10	0
4	AaA	16	0	0	0	0
4	BaB	16	0	0	0	0
5	EEE	1	0	0	0	0
5	EaE	1	0	0	0	0
5	EbE	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	EcE	1	0	0	0	0
6	FFF	20	0	0	0	0
All	All	11224	0	10599	42	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 (42) 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:AAA:154:VAL:HG21	1:AAA:164:ALA:HA	1.77	0.66
3:DDD:2:TRP:HH2	3:DDD:10:TYR:HH	1.49	0.61
1:BBB:172:TRP:O	1:BBB:176:PHE:HB3	2.05	0.57
2:CCC:211:ILE:HG21	2:CCC:219:PRO:HD3	1.88	0.56
1:AAA:350:VAL:O	1:AAA:354:MET:HG3	2.08	0.54
3:DDD:201[B]:SER:OG	3:DDD:205:ARG:NH1	2.44	0.51
1:AAA:346:SER:OG	1:AAA:371:SER:OG	2.17	0.50
1:BBB:112:VAL:O	1:BBB:116:MET:HG3	2.12	0.49
1:BBB:1:MET:HG2	1:BBB:8:GLY:HA2	1.94	0.49
2:CCC:204:GLY:HA3	2:CCC:238:PRO:HG2	1.93	0.49
2:CCC:10:TYR:O	2:CCC:276:GLY:HA2	2.14	0.48
2:CCC:183:ILE:HD12	2:CCC:192:TYR:CG	2.49	0.47
1:AAA:322:VAL:HG13	1:AAA:326:GLU:HB2	1.98	0.46
1:BBB:82:LLP:H5'1	1:BBB:298:GLY:O	2.16	0.46
1:BBB:301:TYR:CD1	1:BBB:302:PRO:HD2	2.50	0.46
1:AAA:212:LEU:O	1:AAA:216:GLY:HA2	2.16	0.46
1:AAA:301:TYR:CD1	1:AAA:302:PRO:HD2	2.50	0.46
2:CCC:188:GLY:HA2	2:CCC:275:GLU:O	2.16	0.46
1:BBB:350:VAL:O	1:BBB:354:MET:HG3	2.16	0.45
1:AAA:161:LEU:O	1:AAA:165:ILE:HG13	2.17	0.45
1:AAA:188:GLY:HA2	1:AAA:275:GLU:O	2.17	0.45
1:BBB:110:HIS:CE1	1:BBB:184:GLY:HA2	2.52	0.45
3:DDD:73:GLU:O	3:DDD:76:VAL:HG12	2.17	0.44
1:BBB:190:HIS:ND1	1:BBB:191:PRO:HA	2.33	0.44
2:CCC:198:ASP:O	2:CCC:201[B]:SER:OG	2.35	0.44
3:DDD:55:TYR:CE2	3:DDD:57:LYS:HG2	2.53	0.43
3:DDD:211:ILE:HG21	3:DDD:219:PRO:HD3	2.01	0.43
1:BBB:130:GLY:HA3	1:BBB:159:ARG:O	2.18	0.43
3:DDD:102:ILE:HA	3:DDD:126:ASP:O	2.19	0.43
3:DDD:224:ALA:O	3:DDD:249:GLY:HA2	2.19	0.43
2:CCC:42:TYR:O	2:CCC:46:TRP:HB3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BBB:74:ASP:HB2	1:BBB:373:ARG:HB3	2.02	0.42
3:DDD:113:ALA:HA	3:DDD:116:MET:HE2	2.01	0.42
1:AAA:104:GLU:HG3	1:AAA:165:ILE:HG12	2.02	0.41
3:DDD:266:LEU:HG	3:DDD:304:VAL:HG11	2.02	0.41
1:AAA:252:ALA:HB3	1:AAA:263:SER:HB2	2.01	0.41
2:CCC:322:VAL:HG11	2:CCC:351:ALA:HB3	2.03	0.41
3:DDD:35:PHE:HD1	3:DDD:95:LEU:HD12	1.86	0.41
1:BBB:45:THR:O	2:CCC:54:TYR:HB2	2.21	0.41
2:CCC:1:MET:HA	2:CCC:190:HIS:ND1	2.35	0.40
1:BBB:237:TYR:HB3	1:BBB:238:PRO:HD3	2.04	0.40
1:BBB:102:ILE:HA	1:BBB:126:ASP:O	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	AAA	382/384 (100%)	372 (97%)	9 (2%)	1 (0%)	41 46
1	BBB	382/384 (100%)	371 (97%)	10 (3%)	1 (0%)	41 46
2	CCC	375/379 (99%)	364 (97%)	10 (3%)	1 (0%)	41 46
3	DDD	377/381 (99%)	359 (95%)	17 (4%)	1 (0%)	41 46
All	All	1516/1528 (99%)	1466 (97%)	46 (3%)	4 (0%)	41 46

All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
3	DDD	186	VAL
1	AAA	186	VAL
1	BBB	186	VAL
2	CCC	186	VAL

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	AAA	265/301 (88%)	261 (98%)	4 (2%)	65	75
1	BBB	263/301 (87%)	258 (98%)	5 (2%)	57	66
2	CCC	255/297 (86%)	252 (99%)	3 (1%)	71	80
3	DDD	254/299 (85%)	254 (100%)	0	100	100
All	All	1037/1198 (87%)	1025 (99%)	12 (1%)	71	80

All (12) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	AAA	5	GLU
1	AAA	76	VAL
1	AAA	274	SER
1	AAA	379	ASP
1	BBB	109	GLN
1	BBB	132	GLU
1	BBB	163	ASP
1	BBB	182	LEU
1	BBB	336	ARG
2	CCC	109	GLN
2	CCC	150	ASN
2	CCC	346	SER

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](#)

4 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	LLP	BBB	82	1	23,24,25	0.44	0	25,32,34	0.60	0
3	LLP	DDD	82	3	23,24,25	0.45	0	25,32,34	0.57	0
2	LLP	CCC	82	2	23,24,25	0.44	0	25,32,34	0.50	0
1	LLP	AAA	82	1	23,24,25	0.46	0	25,32,34	0.55	0

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. '2' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	LLP	BBB	82	1	-	3/16/17/19	0/1/1/1
3	LLP	DDD	82	3	-	8/16/17/19	0/1/1/1
2	LLP	CCC	82	2	-	5/16/17/19	0/1/1/1
1	LLP	AAA	82	1	-	6/16/17/19	0/1/1/1

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (22) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	AAA	82	LLP	C4-C4'-NZ-CE
1	AAA	82	LLP	C5'-OP4-P-OP1
1	AAA	82	LLP	C5'-OP4-P-OP3
1	AAA	82	LLP	C-CA-CB-CG
1	BBB	82	LLP	C4-C4'-NZ-CE
2	CCC	82	LLP	C4-C4'-NZ-CE
2	CCC	82	LLP	C5'-OP4-P-OP3
2	CCC	82	LLP	CG-CD-CE-NZ
3	DDD	82	LLP	C4-C4'-NZ-CE
3	DDD	82	LLP	C5'-OP4-P-OP2

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Mol	Chain	Res	Type	Atoms
3	DDD	82	LLP	C5'-OP4-P-OP3
3	DDD	82	LLP	O-C-CA-CB
3	DDD	82	LLP	CG-CD-CE-NZ
1	BBB	82	LLP	CG-CD-CE-NZ
2	CCC	82	LLP	C5'-OP4-P-OP1
3	DDD	82	LLP	C5'-OP4-P-OP1
2	CCC	82	LLP	C5'-OP4-P-OP2
1	BBB	82	LLP	C5'-OP4-P-OP1
3	DDD	82	LLP	C-CA-CB-CG
1	AAA	82	LLP	C5'-OP4-P-OP2
1	AAA	82	LLP	CG-CD-CE-NZ
3	DDD	82	LLP	C3-C4-C4'-NZ

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	BBB	82	LLP	1	0

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 6 ligands modelled in this entry, 2 could not be matched to an existing wwPDB Chemical Component Dictionary definition at this stage and 4 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](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
3	DDD	1
2	CCC	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	DDD	154:VAL	C	158:SER	N	7.75
1	CCC	283:GLN	C	289:ILE	N	5.26

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	AAA	383/384 (99%)	0.09	11 (2%) 51 55	42, 59, 96, 116	0
1	BBB	383/384 (99%)	0.24	11 (2%) 51 55	52, 71, 97, 124	0
2	CCC	378/379 (99%)	0.38	28 (7%) 14 15	52, 71, 102, 117	0
3	DDD	380/381 (99%)	0.32	22 (5%) 23 25	47, 76, 111, 146	0
All	All	1524/1528 (99%)	0.26	72 (4%) 31 34	42, 70, 102, 146	0

All (72) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	CCC	164	ALA	5.3
1	AAA	157	GLY	5.3
2	CCC	155	ASN	4.7
2	CCC	154	VAL	4.2
3	DDD	16	VAL	4.2
1	AAA	158	SER	4.1
1	BBB	259	SER	3.9
1	AAA	287	GLY	3.8
3	DDD	131	ALA	3.7
2	CCC	170	ARG	3.7
1	BBB	15	LEU	3.5
2	CCC	157	GLY	3.4
2	CCC	168	ALA	3.4
2	CCC	291	PRO	3.2
3	DDD	130	GLY	3.2
2	CCC	163	ASP	3.1
1	BBB	173	VAL	3.1
2	CCC	107	ALA	3.1
3	DDD	287	GLY	3.0
2	CCC	282	LEU	3.0
1	BBB	183	ILE	3.0

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Mol	Chain	Res	Type	RSRZ
2	CCC	259	SER	2.9
3	DDD	239	PHE	2.8
1	BBB	226	VAL	2.8
1	AAA	152	ILE	2.8
2	CCC	14	THR	2.8
3	DDD	178	TYR	2.8
1	AAA	166	ASN	2.8
2	CCC	109	GLN	2.8
2	CCC	166	ASN	2.8
2	CCC	174	ALA	2.7
1	AAA	163	ASP	2.7
2	CCC	203	ILE	2.7
1	AAA	203	ILE	2.7
3	DDD	152	ILE	2.6
3	DDD	352	TYR	2.5
3	DDD	269	GLY	2.5
1	BBB	260	GLY	2.5
3	DDD	154	VAL	2.5
2	CCC	15	LEU	2.4
3	DDD	187	VAL	2.4
2	CCC	11	VAL	2.3
3	DDD	285	GLU	2.3
3	DDD	153	PRO	2.3
1	AAA	286	GLU	2.3
1	BBB	110	HIS	2.3
2	CCC	167	GLU	2.3
1	AAA	288	GLN	2.3
1	BBB	185	SER	2.3
1	AAA	184	GLY	2.2
3	DDD	260	GLY	2.2
2	CCC	84	ASN	2.2
2	CCC	8	GLY	2.2
2	CCC	131	ALA	2.2
3	DDD	183	ILE	2.2
3	DDD	76	VAL	2.2
3	DDD	259	SER	2.2
3	DDD	290	LYS	2.2
2	CCC	158	SER	2.2
3	DDD	284	ASP	2.1
1	AAA	230	SER	2.1
2	CCC	261	LYS	2.1
2	CCC	31	ASP	2.1

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Mol	Chain	Res	Type	RSRZ
2	CCC	183	ILE	2.1
2	CCC	283	GLN	2.1
3	DDD	217	GLN	2.1
2	CCC	173	VAL	2.1
1	BBB	227	GLY	2.1
1	BBB	109	GLN	2.0
3	DDD	286	GLU	2.0
1	BBB	148	GLY	2.0
3	DDD	81	HIS	2.0

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. 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(Å ²)	Q<0.9
3	LLP	DDD	82	24/?	0.92	0.24	53,70,74,75	0
1	LLP	BBB	82	24/?	0.93	0.26	52,66,71,72	0
1	LLP	AAA	82	24/?	0.93	0.26	44,58,67,68	0
2	LLP	CCC	82	24/?	0.95	0.25	54,67,70,74	0

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, 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(Å ²)	Q<0.9
4	LIG	AaA	401	16/?	0.85	0.21	72,77,83,91	0
4	LIG	BaB	401	16/?	0.85	0.26	77,82,87,95	0
5	NA	EaE	2	1/?	0.90	0.38	80,80,80,80	0
5	NA	EbE	3	1/?	0.90	0.20	71,71,71,71	0
5	NA	EEE	1	1/?	0.91	0.28	64,64,64,64	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
5	NA	EcE	4	1/?	0.92	0.16	47,47,47,47	0

6.5 Other polymers [i](#)

There are no such residues in this entry.