



Full wwPDB X-ray Structure Validation Report ⓘ

Nov 28, 2016 – 07:07 PM EST

PDB ID : 5L4R
Title : X-ray structure of the adduct between thaumatin and cisplatin
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Deposited on : 2016-05-26
Resolution : 1.45 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 : 1.7.1 (RC1), CSD as537be (2016)
Xtriage (Phenix) : 1.9-1692
EDS : rb-20028320
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) : rb-20028320

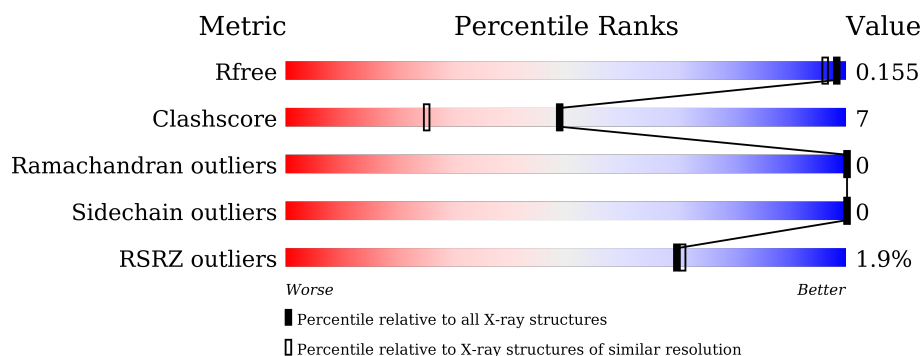
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.45 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	1278 (1.48-1.44)
Clashscore	102246	1336 (1.48-1.44)
Ramachandran outliers	100387	1320 (1.48-1.44)
Sidechain outliers	100360	1320 (1.48-1.44)
RSRZ outliers	91569	1279 (1.48-1.44)

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	207	<div> <div>2%</div> <div>83%</div> <div>14%</div> <div>.</div> </div>

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
2	TLA	A	501	-	-	-	X
3	73M	A	505	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
4	CPT	A	504[A]	-	-	-	X
4	CPT	A	510	-	-	-	X
5	GOL	A	514[A]	-	-	X	X

2 Entry composition [i](#)

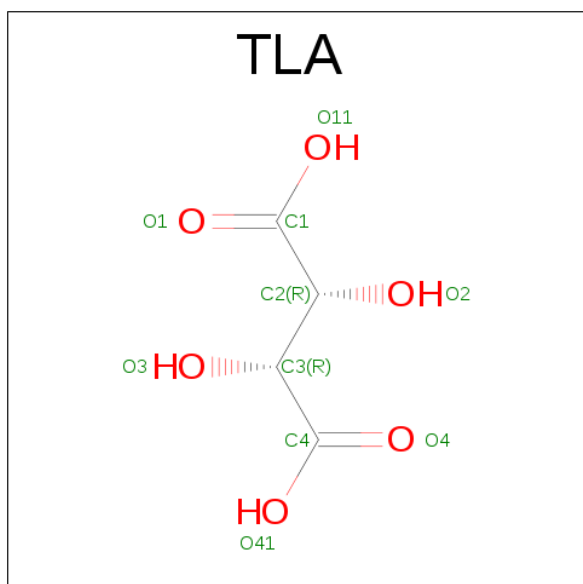
There are 6 unique types of molecules in this entry. The entry contains 2132 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 Thaumatin-1.

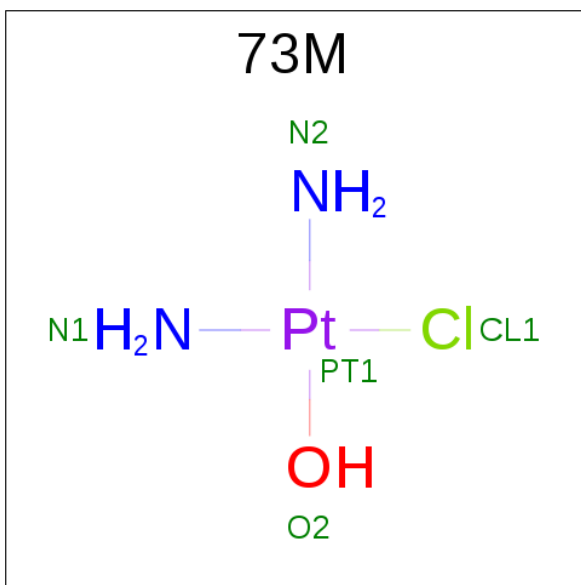
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	207	Total	C	N	O	S	0	16	0
			1634	1016	286	313	19			

- Molecule 2 is L(+)-TARTARIC ACID (three-letter code: TLA) (formula: C₄H₆O₆).



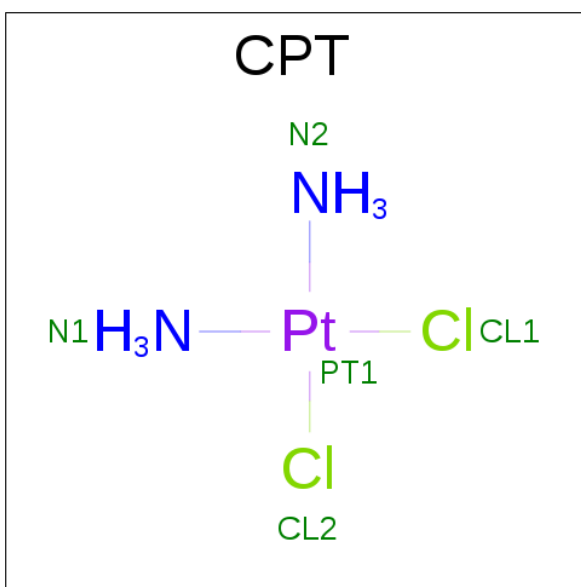
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total	C	O	0	0
			10	4	6		
2	A	1	Total	C	O	0	0
			10	4	6		

- Molecule 3 is bis(azanyl)-chloranyl-oxidanyl-platinum (three-letter code: 73M) (formula: ClH₅N₂OPt).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	A	1	Total	Cl	N	O	Pt	0	0
			4	1	1	1	1		
3	A	1	Total	N	O	Pt		0	0
			4	2	1	1			
3	A	1	Total	Cl	N	O	Pt	0	1
			5	1	2	1	1		

- Molecule 4 is Cisplatin (three-letter code: CPT) (formula: Cl₂H₆N₂Pt).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
4	A	1	Total	Cl	N	Pt	0	1
			10	2	5	3		

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
4	A	1	Total	Cl	N	Pt	0	1
			8	4	2	2		
4	A	1	Total	Cl	N	Pt	0	1
			5	1	2	2		
4	A	1	Total	Cl	N	Pt	0	0
			4	1	2	1		
4	A	1	Total	Cl	N	Pt	0	0
			4	1	2	1		
4	A	1	Total	Pt			0	1
			1	1				
4	A	1	Total	Pt			0	1
			1	1				
4	A	1	Total	N	Pt		0	0
			2	1	1			

- Molecule 5 is GLYCEROL (three-letter code: GOL) (formula: $C_3H_8O_3$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	A	1	Total	C	O	0	1
			6	3	3		

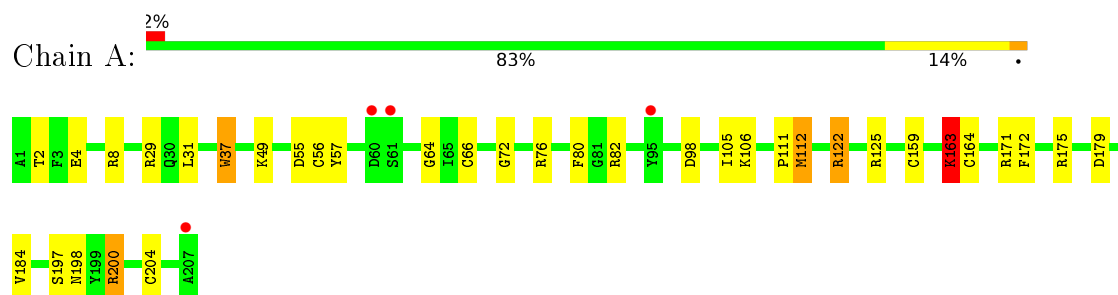
- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	423	Total	O	0	29
			424	424		

3 Residue-property plots

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: Thaumatin-1



4 Data and refinement statistics

Property	Value	Source
Space group	P 41 21 2	Depositor
Cell constants a, b, c, α , β , γ	57.84Å 57.84Å 150.16Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	53.97 – 1.45 27.66 – 1.45	Depositor EDS
% Data completeness (in resolution range)	94.9 (53.97-1.45) 94.9 (27.66-1.45)	Depositor EDS
R_{merge}	0.06	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.75 (at 1.45Å)	Xtriage
Refinement program	REFMAC 5.8.0135	Depositor
R, R_{free}	0.112 , 0.154 0.115 , 0.155	Depositor DCC
R_{free} test set	2147 reflections (5.15%)	DCC
Wilson B-factor (Å ²)	14.5	Xtriage
Anisotropy	0.251	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.38 , 60.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.34$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.98	EDS
Total number of atoms	2132	wwPDB-VP
Average B, all atoms (Å ²)	22.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.44% 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

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: GOL, TLA, 73M, CPT

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	1.66	10/1729 (0.6%)	1.57	24/2339 (1.0%)

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	A	0	1

All (10) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	82	ARG	CZ-NH2	-6.75	1.24	1.33
1	A	72	GLY	N-CA	5.95	1.54	1.46
1	A	197	SER	CB-OG	5.57	1.49	1.42
1	A	37	TRP	CZ3-CH2	5.46	1.48	1.40
1	A	163[A]	LYS	C-N	-5.43	1.21	1.34
1	A	163[B]	LYS	C-N	-5.43	1.21	1.34
1	A	37	TRP	CD2-CE2	5.40	1.47	1.41
1	A	125[A]	ARG	CZ-NH1	5.30	1.40	1.33
1	A	125[B]	ARG	CZ-NH1	5.30	1.40	1.33
1	A	80	PHE	CG-CD1	5.10	1.46	1.38

All (24) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	175	ARG	NE-CZ-NH1	11.63	126.12	120.30
1	A	8	ARG	NE-CZ-NH1	9.72	125.16	120.30
1	A	179[A]	ASP	CB-CG-OD2	-7.49	111.56	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	179[B]	ASP	CB-CG-OD2	-7.49	111.56	118.30
1	A	122[A]	ARG	NE-CZ-NH1	-6.82	116.89	120.30
1	A	122[B]	ARG	NE-CZ-NH1	-6.82	116.89	120.30
1	A	29	ARG	NE-CZ-NH2	-6.80	116.90	120.30
1	A	98	ASP	CB-CG-OD1	6.67	124.30	118.30
1	A	171	ARG	NE-CZ-NH2	-6.58	117.01	120.30
1	A	106	LYS	CD-CE-NZ	-6.58	96.56	111.70
1	A	112[A]	MET	N-CA-CB	-6.31	99.24	110.60
1	A	112[B]	MET	N-CA-CB	-6.31	99.24	110.60
1	A	171	ARG	NE-CZ-NH1	5.89	123.25	120.30
1	A	179[A]	ASP	CB-CG-OD1	5.84	123.56	118.30
1	A	179[B]	ASP	CB-CG-OD1	5.84	123.56	118.30
1	A	200	ARG	NE-CZ-NH2	-5.79	117.41	120.30
1	A	98	ASP	CB-CG-OD2	-5.63	113.23	118.30
1	A	76[A]	ARG	CA-CB-CG	5.46	125.41	113.40
1	A	76[B]	ARG	CA-CB-CG	5.46	125.41	113.40
1	A	76[C]	ARG	CA-CB-CG	5.46	125.41	113.40
1	A	82	ARG	CB-CG-CD	-5.35	97.70	111.60
1	A	172	PHE	CB-CG-CD2	-5.14	117.20	120.80
1	A	163[A]	LYS	C-N-CA	5.10	134.44	121.70
1	A	163[B]	LYS	C-N-CA	5.10	134.44	121.70

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	163[B]	LYS	Mainchain

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	1634	0	1568	19	0
2	A	20	0	8	0	0
3	A	13	0	0	1	0
4	A	35	0	0	4	1
5	A	6	0	8	4	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	A	424	0	0	12	6
All	All	2132	0	1584	24	6

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 (24) 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)
4:A:513:CPT:N1	6:A:606:HOH:O	2.08	0.87
3:A:509[A]:73M:N1	6:A:605:HOH:O	2.08	0.85
1:A:122[B]:ARG:NH2	6:A:607:HOH:O	2.15	0.78
5:A:514[A]:GOL:O1	6:A:604:HOH:O	2.03	0.76
5:A:514[A]:GOL:O2	6:A:604:HOH:O	2.03	0.74
5:A:514[A]:GOL:C1	6:A:604:HOH:O	2.46	0.63
1:A:49:LYS:HE3	4:A:506[B]:CPT:CL2	2.39	0.59
1:A:112[B]:MET:HE3	6:A:783:HOH:O	2.04	0.57
1:A:122[B]:ARG:NH2	6:A:608[B]:HOH:O	2.25	0.57
1:A:49:LYS:CE	4:A:506[B]:CPT:CL2	2.91	0.55
1:A:55[B]:ASP:CG	6:A:671[B]:HOH:O	2.45	0.53
1:A:163[A]:LYS:HD3	6:A:1011:HOH:O	2.09	0.51
1:A:184:VAL:HG23	6:A:765[B]:HOH:O	2.11	0.50
1:A:111:PRO:HG2	1:A:204:CYS:HA	1.94	0.49
1:A:49:LYS:NZ	4:A:506[B]:CPT:CL2	2.82	0.49
1:A:2[A]:THR:HG22	1:A:198:ASN:CG	2.34	0.48
1:A:122[B]:ARG:NH1	6:A:608[B]:HOH:O	2.48	0.47
1:A:105:ILE:CD1	5:A:514[A]:GOL:H31	2.46	0.46
1:A:31[A]:LEU:HD21	1:A:37:TRP:HB2	1.99	0.44
1:A:57:TYR:O	1:A:64:GLY:HA3	2.17	0.44
1:A:159[B]:CYS:SG	1:A:184:VAL:HB	2.59	0.42
1:A:56:CYS:HA	1:A:66:CYS:HA	2.03	0.41
1:A:163[A]:LYS:O	1:A:164:CYS:O	2.39	0.40
1:A:4:GLU:O	1:A:200:ARG:HA	2.22	0.40

All (6) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A:857:HOH:O	6:A:1011:HOH:O[4_554]	1.79	0.41
6:A:816:HOH:O	6:A:835:HOH:O[6_444]	1.94	0.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A:875:HOH:O	6:A:1011:HOH:O[4_554]	2.10	0.10
4:A:510:CPT:N1	6:A:752:HOH:O[6_444]	2.16	0.04
6:A:844:HOH:O	6:A:977:HOH:O[4_554]	2.17	0.03
6:A:611:HOH:O	6:A:690:HOH:O[6_444]	2.17	0.03

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	222/207 (107%)	219 (99%)	3 (1%)	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	184/167 (110%)	184 (100%)	0	100	100

There are no protein residues with a non-rotameric sidechain to report.

Some 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](#)

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 18 ligands modelled in this entry, 3 are modelled with single atom - leaving 15 for Mogul analysis.

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	TLA	A	501	-	3,9,9	1.54	1 (33%)	6,12,12	2.96	3 (50%)
2	TLA	A	502	-	3,9,9	1.04	0	6,12,12	2.04	2 (33%)
3	73M	A	503	1	0,3,4	0.00	-	0,3,6	0.00	-
4	CPT	A	504[A]	1	0,3,4	0.00	-	0,3,6	0.00	-
4	CPT	A	504[B]	1,6	0,3,4	0.00	-	0,3,6	0.00	-
4	CPT	A	504[C]	1	0,1,4	0.00	-	0,0,6	0.00	-
3	73M	A	505	1,6	0,3,4	0.00	-	0,3,6	0.00	-
4	CPT	A	506[A]	1	0,3,4	0.00	-	0,3,6	0.00	-
4	CPT	A	506[B]	1	0,3,4	0.00	-	0,3,6	0.00	-
4	CPT	A	507[A]	1	0,3,4	0.00	-	0,3,6	0.00	-
4	CPT	A	508	1	0,3,4	0.00	-	0,3,6	0.00	-
3	73M	A	509[A]	-	3,4,4	5.65	2 (66%)	0,6,6	0.00	-
4	CPT	A	510	1,6	0,3,4	0.00	-	0,3,6	0.00	-
4	CPT	A	513	1	0,1,4	0.00	-	0,0,6	0.00	-
5	GOL	A	514[A]	-	5,5,5	0.29	0	5,5,5	0.83	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. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	TLA	A	501	-	-	0/4/12/12	0/0/0/0
2	TLA	A	502	-	-	0/4/12/12	0/0/0/0
3	73M	A	503	1	-	0/0/0/0	0/0/0/0
4	CPT	A	504[A]	1	-	0/0/0/0	0/0/0/0
4	CPT	A	504[B]	1,6	-	0/0/0/0	0/0/0/0
4	CPT	A	504[C]	1	-	0/0/0/0	0/0/0/0
3	73M	A	505	1,6	-	0/0/0/0	0/0/0/0
4	CPT	A	506[A]	1	-	0/0/0/0	0/0/0/0
4	CPT	A	506[B]	1	-	0/0/0/0	0/0/0/0
4	CPT	A	507[A]	1	-	0/0/0/0	0/0/0/0
4	CPT	A	508	1	-	0/0/0/0	0/0/0/0
3	73M	A	509[A]	-	-	0/0/0/0	0/0/0/0
4	CPT	A	510	1,6	-	0/0/0/0	0/0/0/0
4	CPT	A	513	1	-	0/0/0/0	0/0/0/0
5	GOL	A	514[A]	-	-	0/4/4/4	0/0/0/0

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	509[A]	73M	PT1-CL1	-9.10	2.12	2.31
2	A	501	TLA	O3-C3	2.58	1.47	1.42
3	A	509[A]	73M	PT1-N1	3.22	2.10	2.03

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	501	TLA	O3-C3-C2	-4.46	95.93	108.67
2	A	501	TLA	C1-C2-C3	-4.34	104.45	113.35
2	A	502	TLA	C1-C2-C3	-3.63	105.91	113.35
2	A	502	TLA	C4-C3-C2	-3.23	106.74	113.35
2	A	501	TLA	O3-C3-C4	2.90	118.34	111.12

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

5 monomers are involved in 10 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	A	506[B]	CPT	3	0
3	A	509[A]	73M	1	0
4	A	510	CPT	0	1

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	A	513	CPT	1	0
5	A	514[A]	GOL	4	0

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	207/207 (100%)	-0.41	4 (1%) 70 71	10, 15, 31, 77	0

All (4) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	207	ALA	7.0
1	A	60	ASP	3.3
1	A	61	SER	2.6
1	A	95	TYR	2.5

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
5	GOL	A	514[A]	6/6	0.88	0.21	11.43	27,30,40,43	6

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
4	CPT	A	504[A]	4/5	0.97	0.18	9.94	6,14,16,20	4
3	73M	A	505	4/5	0.99	0.14	7.01	11,20,22,23	4
4	CPT	A	510	4/5	0.97	0.17	5.18	18,21,24,28	4
2	TLA	A	501	10/10	0.92	0.12	2.50	17,21,22,28	10
2	TLA	A	502	10/10	0.98	0.05	-0.81	11,14,18,20	0
3	73M	A	503	4/5	1.00	0.03	-2.54	15,19,19,21	4
4	CPT	A	504[C]	2/5	0.97	0.18	-	57,57,57,71	2
4	CPT	A	506[B]	4/5	0.97	0.15	-	12,21,41,44	4
3	73M	A	509[A]	5/5	0.95	0.21	-	23,25,33,39	5
4	CPT	A	504[B]	4/5	0.97	0.18	-	33,39,41,49	4
4	CPT	A	511[A]	1/5	0.97	0.05	-	51,51,51,51	1
4	CPT	A	508	4/5	0.91	0.37	-	27,45,50,60	4
4	CPT	A	506[A]	4/5	0.97	0.15	-	26,29,38,54	4
4	CPT	A	513	2/5	0.94	0.21	-	50,50,50,65	2
4	CPT	A	507[A]	4/5	0.99	0.12	-	29,32,39,39	4
4	CPT	A	507[B]	1/5	0.99	0.12	-	83,83,83,83	1
4	CPT	A	512[A]	1/5	0.87	0.19	-	69,69,69,69	1

6.5 Other polymers

There are no such residues in this entry.