



# wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 20, 2026 – 06:43 PM UTC

PDB ID : 2YID / pdb\_00002yid  
Title : Crystal structure of the SucA domain of Mycobacterium smegmatis alpha-ketoglutarate decarboxylase in complex with the enamine-ThDP intermediate  
Authors : Wagner, T.; Bellinzoni, M.; Wehenkel, A.M.; O'Hare, H.M.; Alzari, P.M.  
Deposited on : 2011-05-11  
Resolution : 2.25 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](mailto: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 types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4-5-2 with Phenix2.0  
Mogul : 2022.3.0, CSD as543be (2022)  
Xtrriage (Phenix) : 2.0  
EDS : 3.0  
Buster-report : wwPDB partial adaption of 1.1.7 (2018)  
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)  
CCP4 : 9.0.010 (Gargrove)  
Density-Fitness : 1.0.12  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.49

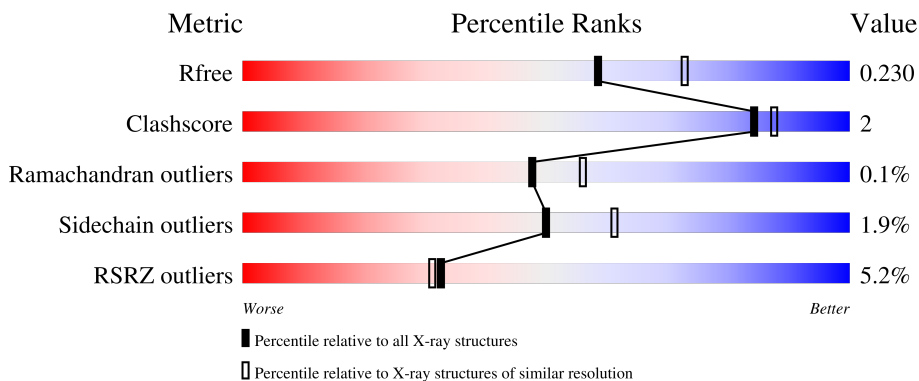
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

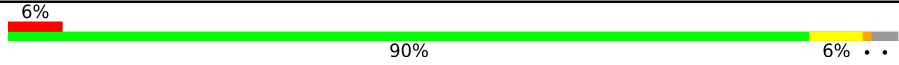

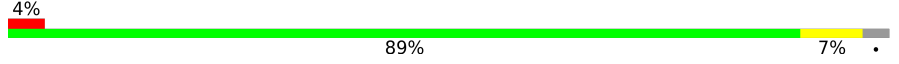
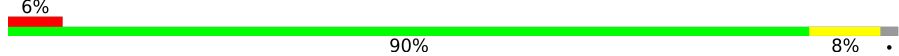
The reported resolution of this entry is 2.25 Å.

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))
$R_{free}$	180053	1898 (2.26-2.26)
Clashscore	190562	2005 (2.26-2.26)
Ramachandran outliers	187476	1965 (2.26-2.26)
Sidechain outliers	187428	1966 (2.26-2.26)
RSRZ outliers	180081	1898 (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  $\geq 3$ , 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	868	 6% 90% 6% ..
1	B	868	 4% 88% 7% .
1	C	868	 4% 89% 7% .
1	D	868	 6% 90% 8% .

## 2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 26987 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.

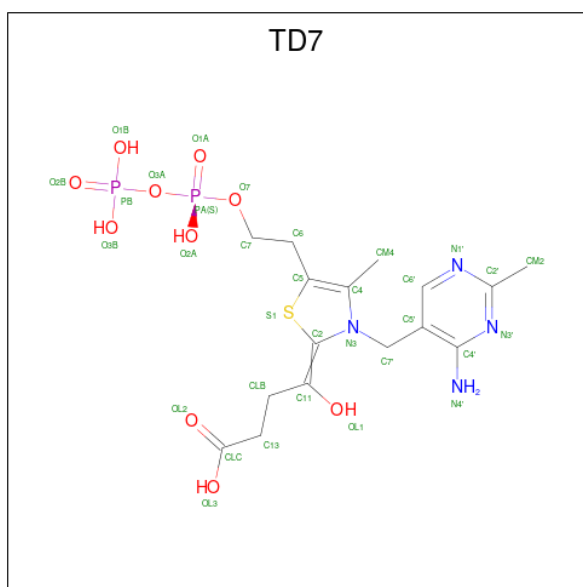
- Molecule 1 is a protein called 2-OXOGLUTARATE DECARBOXYLASE.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	844	6519	4099	1154	1242	24	0	0	0
1	B	837	6475	4074	1141	1236	24	0	1	0
1	C	843	6537	4112	1162	1239	24	0	1	0
1	D	852	6586	4143	1164	1255	24	0	0	0

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	360	GLY	-	expression tag	UNP A0R2B1
B	360	GLY	-	expression tag	UNP A0R2B1
C	360	GLY	-	expression tag	UNP A0R2B1
D	360	GLY	-	expression tag	UNP A0R2B1

- Molecule 2 is (4E)-4-{3-[(4-amino-2-methylpyrimidin-5-yl)methyl]-5-(2-[(S)-hydroxy(phosphonoxy)phosphoryl]oxy)ethyl)-4-methyl-1,3-thiazol-2(3H)-ylidene}-4-hydroxybutanoic acid (CCD ID: TD7) (formula: C<sub>16</sub>H<sub>24</sub>N<sub>4</sub>O<sub>10</sub>P<sub>2</sub>S).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	
			Total	C	N	O	P			S
2	A	1	Total	C	N	O	P	S	0	0
			33	16	4	10	2	1		
2	B	1	Total	C	N	O	P	S	0	0
			33	16	4	10	2	1		
2	C	1	Total	C	N	O	P	S	0	0
			33	16	4	10	2	1		
2	D	1	Total	C	N	O	P	S	0	0
			33	16	4	10	2	1		

- Molecule 3 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	Mg		
3	A	1	Total	Mg	0	0
			1	1		
3	B	1	Total	Mg	0	0
			1	1		
3	C	1	Total	Mg	0	0
			1	1		
3	D	1	Total	Mg	0	0
			1	1		

- Molecule 4 is CALCIUM ION (CCD ID: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	Ca		
4	A	1	Total	Ca	0	0
			1	1		

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

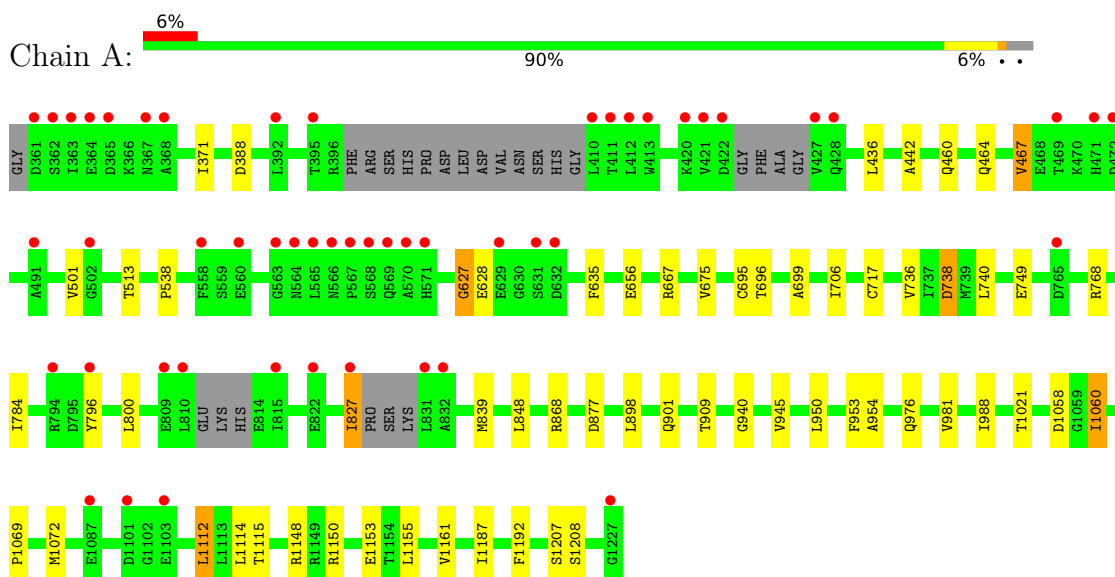
- Molecule 5 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	203	Total O 203 203	0	0
5	B	168	Total O 168 168	0	0
5	C	228	Total O 228 228	0	0
5	D	131	Total O 131 131	0	0

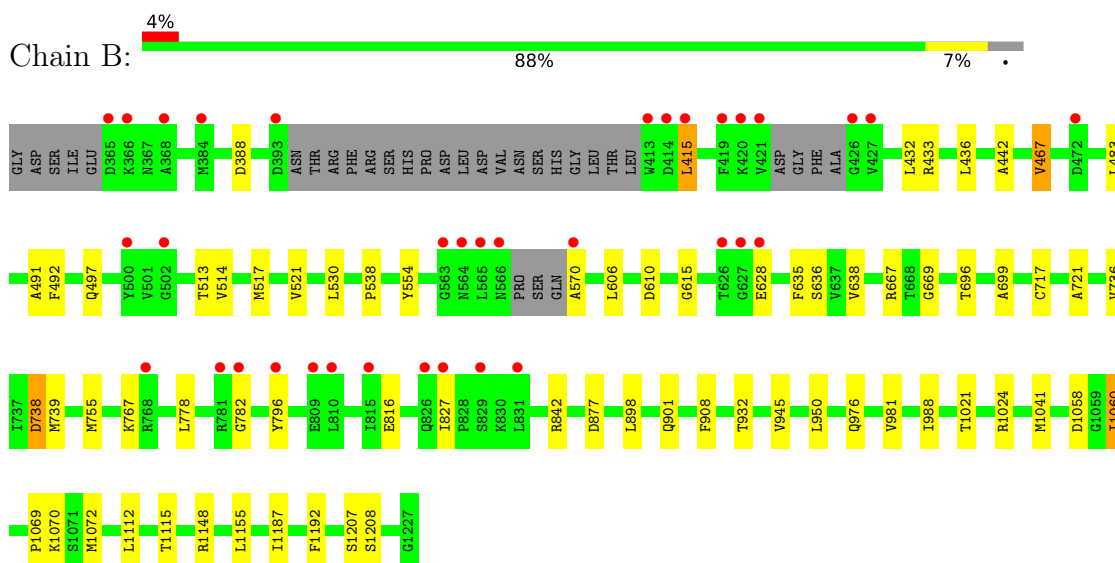
### 3 Residue-property plots [i](#)

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.

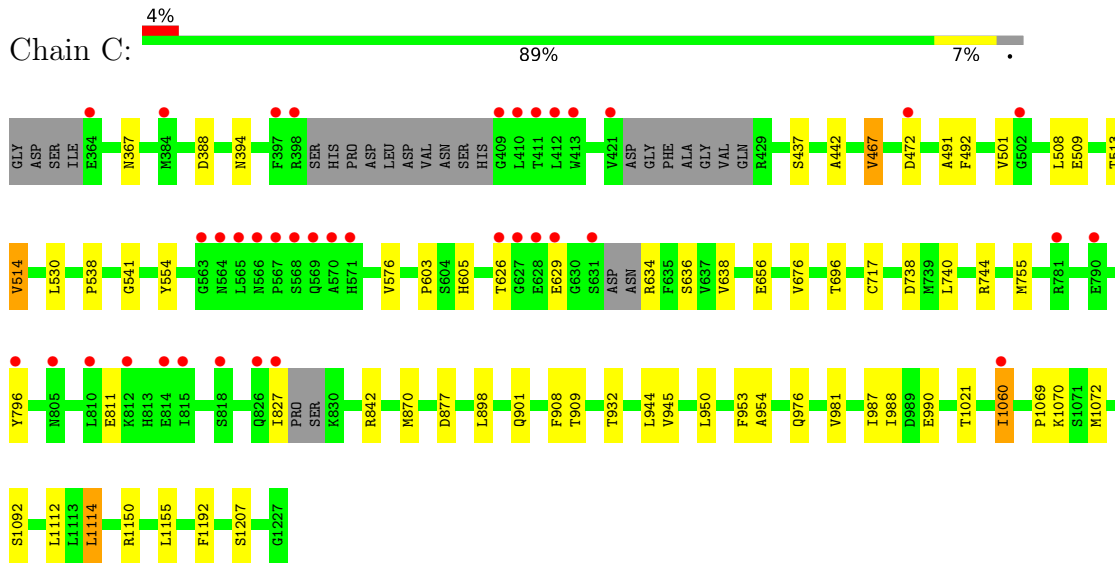
#### • Molecule 1: 2-OXOGLUTARATE DECARBOXYLASE



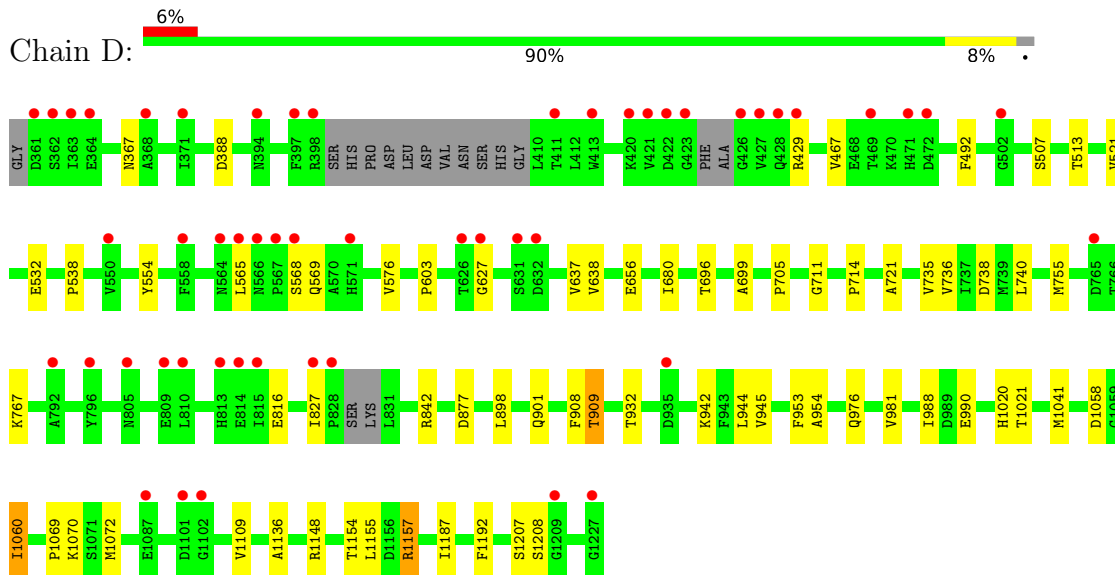
#### • Molecule 1: 2-OXOGLUTARATE DECARBOXYLASE



#### • Molecule 1: 2-OXOGLUTARATE DECARBOXYLASE



• Molecule 1: 2-OXOGLUTARATE DECARBOXYLASE



## 4 Data and refinement statistics i

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	79.84Å 82.29Å 163.48Å 99.23° 99.03° 100.63°	Depositor
Resolution (Å)	32.94 – 2.25 32.94 – 2.25	Depositor EDS
% Data completeness (in resolution range)	95.7 (32.94-2.25) 95.7 (32.94-2.25)	Depositor EDS
$R_{merge}$	0.10	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	2.06 (at 2.24Å)	Xtrriage
Refinement program	BUSTER 2.11.1	Depositor
R, $R_{free}$	0.192 , 0.223 (Not available) , 0.230	Depositor DCC
$R_{free}$ test set	9064 reflections (4.82%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	25.0	Xtrriage
Anisotropy	0.381	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.33 , 49.3	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.49$ , $\langle L^2 \rangle = 0.32$	Xtrriage
Estimated twinning fraction	0.000 for -k,-h,-l	Xtrriage
$F_o, F_c$ correlation	0.93	EDS
Total number of atoms	26987	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	33.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 17.66% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

<sup>2</sup>Theoretical 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: CA, TD7, MG

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	0.85	0/6647	1.22	8/9010 (0.1%)
1	B	0.85	3/6609 (0.0%)	1.23	13/8961 (0.1%)
1	C	0.88	2/6668 (0.0%)	1.21	9/9037 (0.1%)
1	D	0.87	1/6718 (0.0%)	1.21	9/9106 (0.1%)
All	All	0.86	6/26642 (0.0%)	1.22	39/36114 (0.1%)

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

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	870	MET	SD-CE	-6.20	1.64	1.79
1	B	610	ASP	CA-C	5.88	1.59	1.52
1	D	680	ILE	CA-CB	5.48	1.61	1.55
1	C	987	ILE	CG1-CD1	5.29	1.72	1.51
1	B	517	MET	SD-CE	-5.23	1.66	1.79

The worst 5 of 39 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	953	PHE	CA-CB-CG	6.54	120.34	113.80
1	B	638	VAL	N-CA-C	6.46	115.01	107.77
1	B	738	ASP	CA-CB-CG	6.24	118.84	112.60
1	C	388	ASP	CA-CB-CG	6.19	118.79	112.60
1	A	877	ASP	CA-CB-CG	5.93	118.53	112.60

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	6519	0	6303	27	0
1	B	6475	0	6261	30	0
1	C	6537	0	6327	31	0
1	D	6586	0	6377	30	0
2	A	33	0	20	2	0
2	B	33	0	20	2	0
2	C	33	0	20	2	0
2	D	33	0	20	2	0
3	A	1	0	0	0	0
3	B	1	0	0	0	0
3	C	1	0	0	0	0
3	D	1	0	0	0	0
4	A	1	0	0	0	0
4	B	1	0	0	0	0
4	C	1	0	0	0	0
4	D	1	0	0	0	0
5	A	203	0	0	1	0
5	B	168	0	0	1	0
5	C	228	0	0	1	0
5	D	131	0	0	3	0
All	All	26987	0	25348	118	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.

The worst 5 of 118 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:A:839:MET:HE3	1:A:839:MET:HA	1.68	0.74
1:B:827:ILE:HA	1:B:1060:ILE:HD11	1.78	0.65
1:C:827:ILE:HA	1:C:1060:ILE:HD11	1.78	0.63
1:A:1112:LEU:HD12	1:A:1161:VAL:HG21	1.79	0.63
1:C:492:PHE:CD1	1:C:554:TYR:HE1	2.18	0.62

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	834/868 (96%)	811 (97%)	22 (3%)	1 (0%)	48 56
1	B	830/868 (96%)	807 (97%)	22 (3%)	1 (0%)	48 56
1	C	834/868 (96%)	811 (97%)	21 (2%)	2 (0%)	43 50
1	D	844/868 (97%)	820 (97%)	23 (3%)	1 (0%)	48 56
All	All	3342/3472 (96%)	3249 (97%)	88 (3%)	5 (0%)	48 56

All (5) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	C	605	HIS
1	A	538	PRO
1	B	538	PRO
1	C	538	PRO
1	D	538	PRO

### 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	672/726 (93%)	657 (98%)	15 (2%)	45 56
1	B	670/726 (92%)	659 (98%)	11 (2%)	55 66
1	C	674/726 (93%)	662 (98%)	12 (2%)	51 63
1	D	681/726 (94%)	668 (98%)	13 (2%)	50 61
All	All	2697/2904 (93%)	2646 (98%)	51 (2%)	50 61

5 of 51 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	C	467	VAL
1	C	1060	ILE
1	D	1157	ARG
1	C	501	VAL
1	C	811	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 19 such sidechains are listed below:

Mol	Chain	Res	Type
1	D	813	HIS
1	D	1061	GLN
1	D	1107	ASN
1	D	1001	GLN
1	C	556	GLN

### 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 oligosaccharides in this entry.

## 5.6 Ligand geometry [i](#)

Of 12 ligands modelled in this entry, 8 are monoatomic - leaving 4 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	TD7	B	2001	3	32,34,34	1.57	4 (12%)	40,50,50	1.67	9 (22%)
2	TD7	A	2001	3	32,34,34	1.64	6 (18%)	40,50,50	1.67	10 (25%)
2	TD7	C	2001	3	32,34,34	1.58	5 (15%)	40,50,50	1.77	10 (25%)
2	TD7	D	2001	3	32,34,34	1.60	5 (15%)	40,50,50	1.68	10 (25%)

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	TD7	B	2001	3	-	4/22/26/26	0/2/2/2
2	TD7	A	2001	3	-	7/22/26/26	0/2/2/2
2	TD7	C	2001	3	-	7/22/26/26	0/2/2/2
2	TD7	D	2001	3	-	8/22/26/26	0/2/2/2

The worst 5 of 20 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	2001	TD7	OL1-C11	4.26	1.44	1.32
2	C	2001	TD7	OL1-C11	4.24	1.44	1.32
2	A	2001	TD7	OL1-C11	4.23	1.44	1.32
2	D	2001	TD7	OL1-C11	4.10	1.43	1.32
2	A	2001	TD7	C2-N3	-3.90	1.31	1.39

The worst 5 of 39 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	2001	TD7	CM2-C2'-N1'	4.90	122.42	117.20
2	A	2001	TD7	C4-C5-S1	-3.94	107.05	110.63
2	D	2001	TD7	CM2-C2'-N1'	3.92	121.37	117.20
2	B	2001	TD7	C6'-N1'-C2'	3.75	122.24	116.07
2	B	2001	TD7	C4-C5-S1	-3.67	107.29	110.63

There are no chirality outliers.

5 of 26 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	2001	TD7	CLC-C13-CLB-C11
2	C	2001	TD7	CLC-C13-CLB-C11

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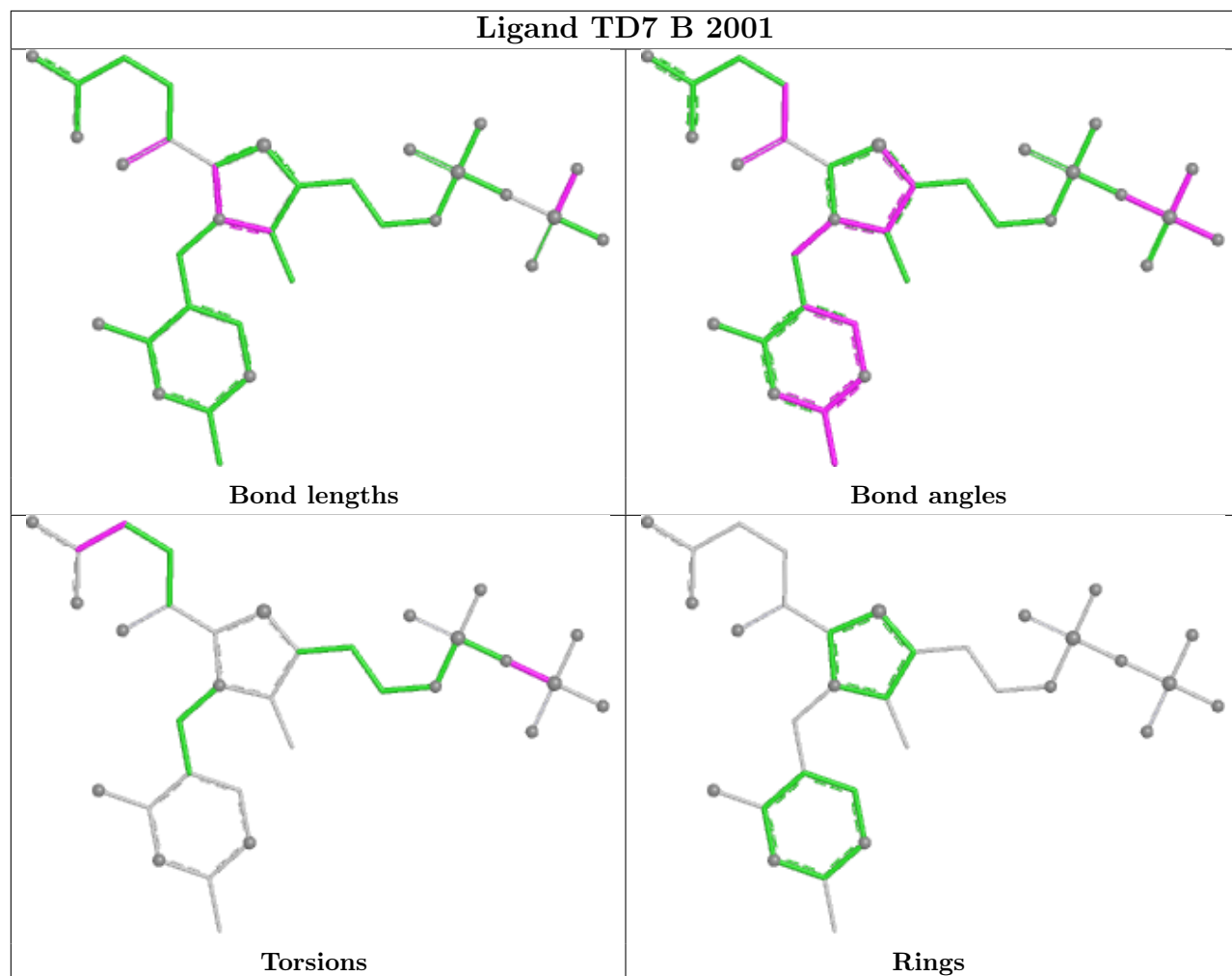
Mol	Chain	Res	Type	Atoms
2	D	2001	TD7	CLC-C13-CLB-C11
2	A	2001	TD7	PA-O3A-PB-O2B
2	C	2001	TD7	PA-O3A-PB-O2B

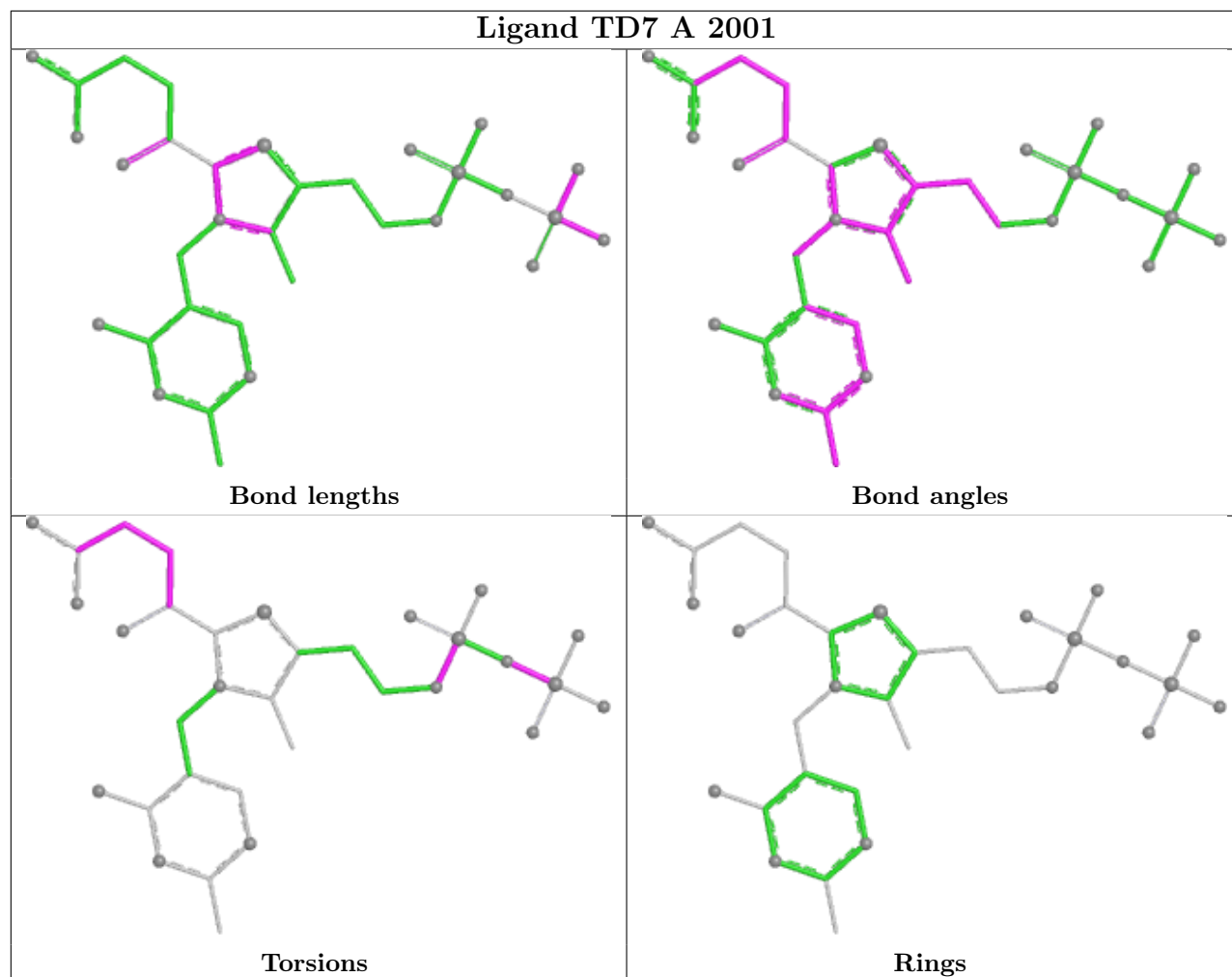
There are no ring outliers.

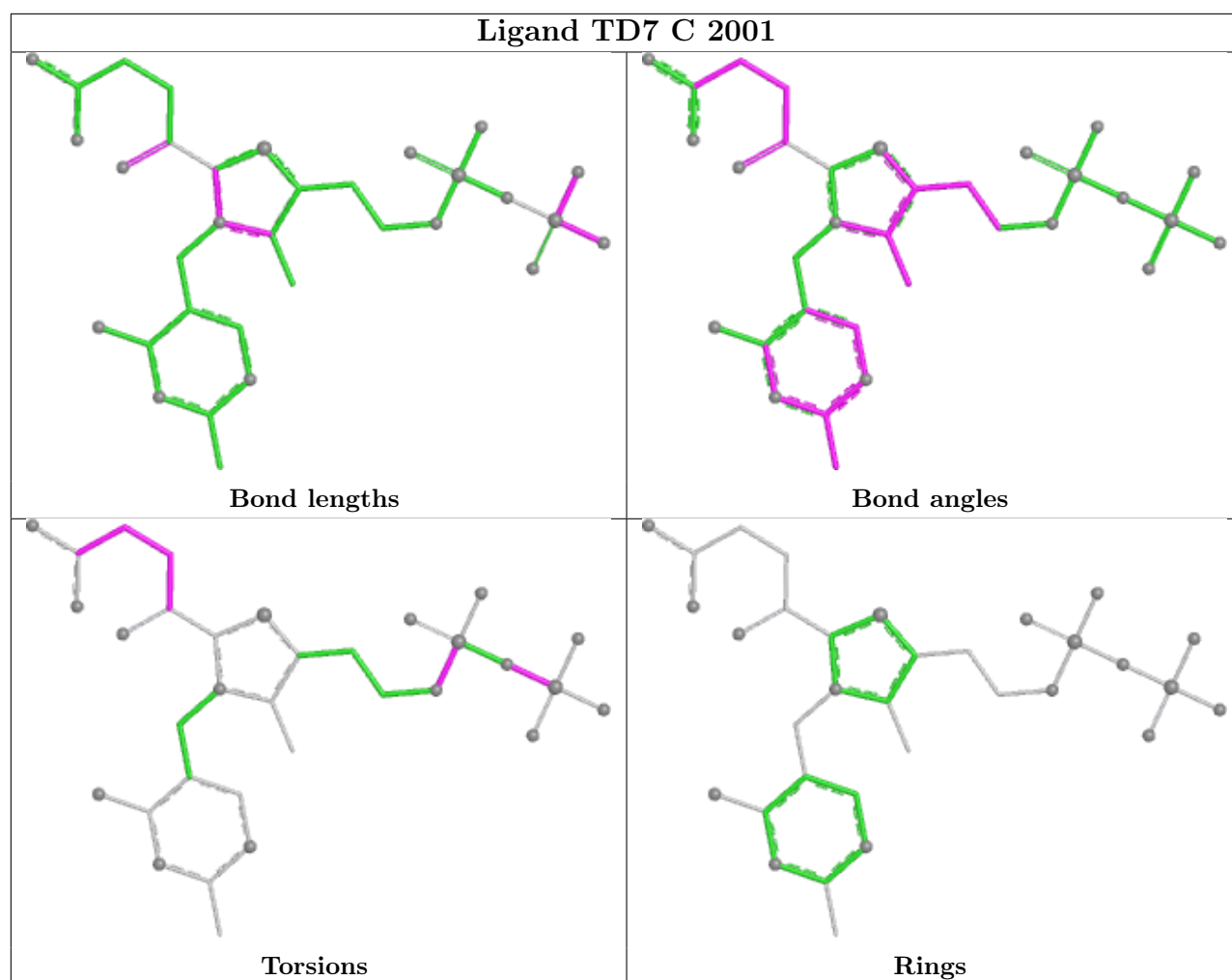
4 monomers are involved in 8 short contacts:

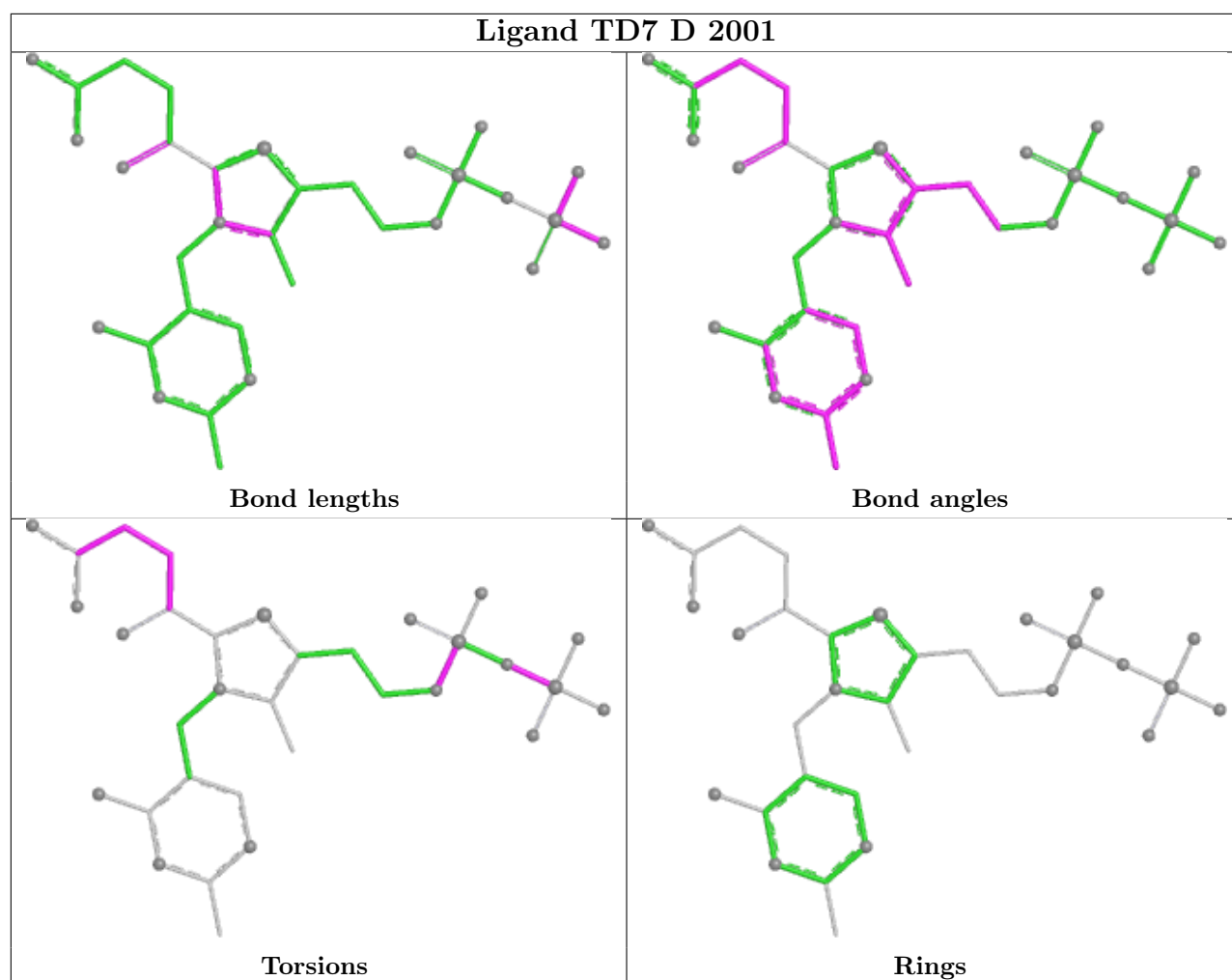
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	2001	TD7	2	0
2	A	2001	TD7	2	0
2	C	2001	TD7	2	0
2	D	2001	TD7	2	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.









## 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, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
1	A	844/868 (97%)	0.36	51 (6%) 27 25	14, 31, 65, 94	0
1	B	837/868 (96%)	0.21	35 (4%) 40 40	11, 30, 61, 89	1 (0%)
1	C	843/868 (97%)	0.16	38 (4%) 38 37	7, 28, 63, 93	1 (0%)
1	D	852/868 (98%)	0.32	52 (6%) 27 25	14, 31, 67, 91	0
All	All	3376/3472 (97%)	0.26	176 (5%) 33 31	7, 30, 64, 94	2 (0%)

The worst 5 of 176 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	568	SER	8.0
1	A	827	ILE	7.2
1	C	631	SER	6.1
1	A	831	LEU	5.6
1	A	502	GLY	5.4

### 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](#)

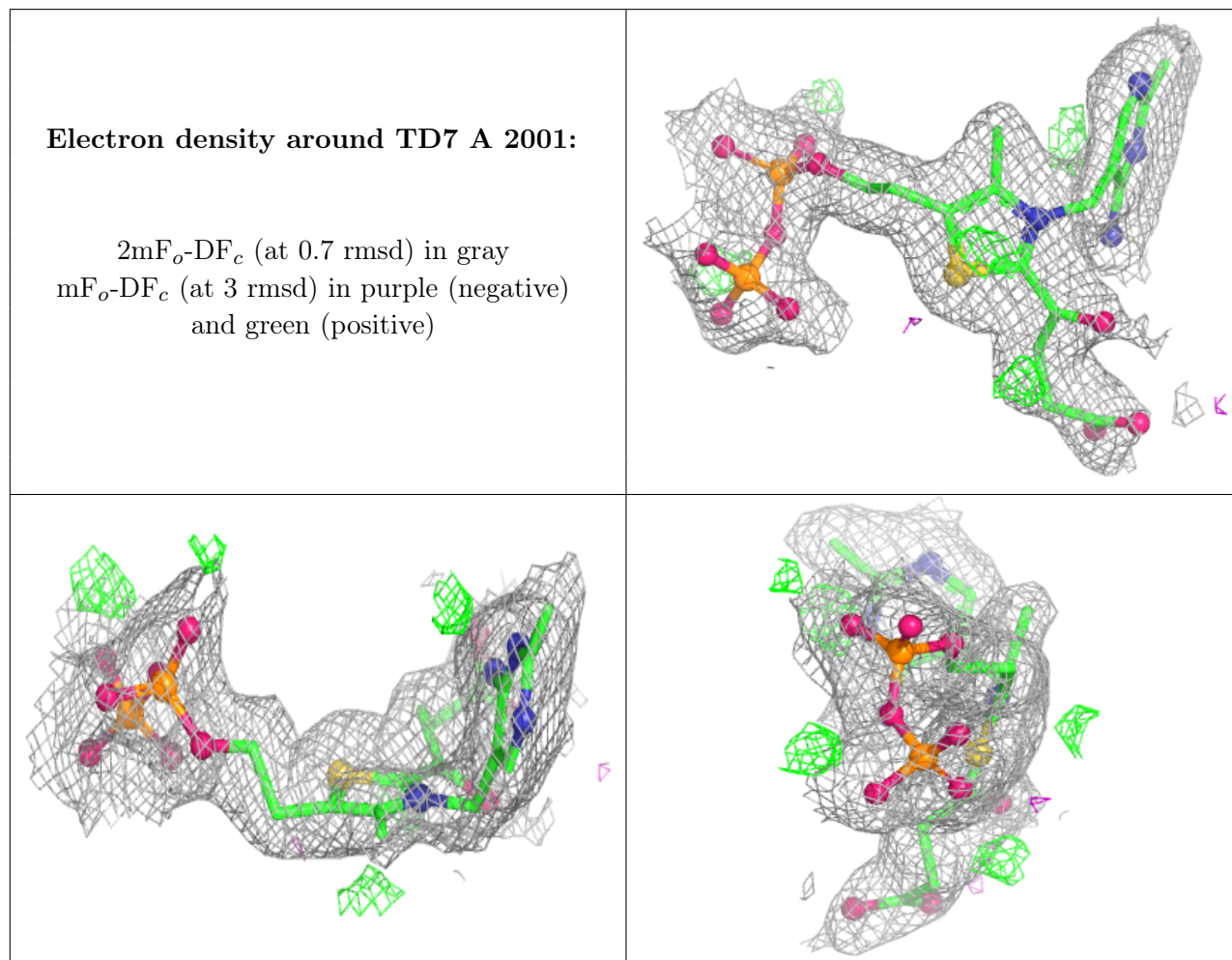
There are no oligosaccharides in this entry.

### 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, 95<sup>th</sup> 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.

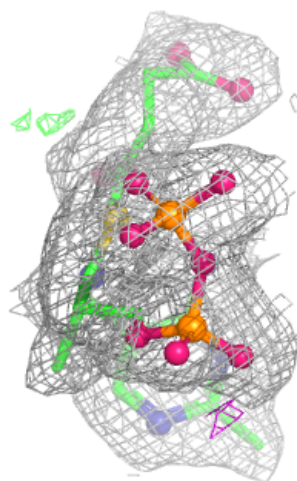
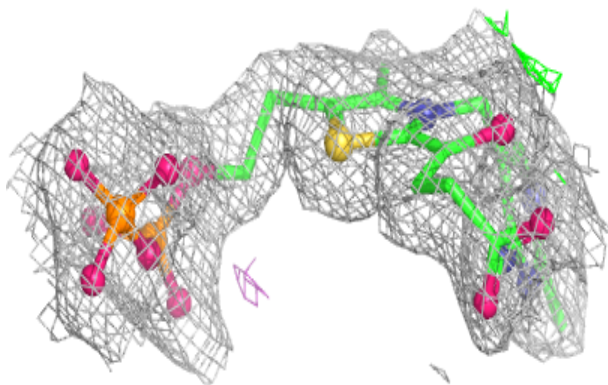
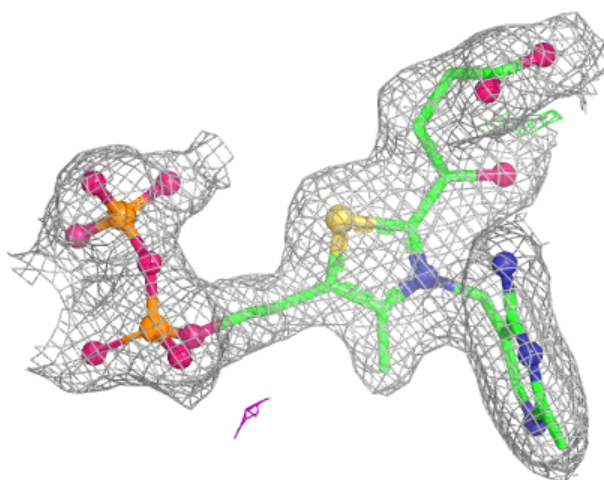
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
2	TD7	A	2001	33/33	0.98	0.07	11,20,45,48	0
2	TD7	B	2001	33/33	0.98	0.06	9,19,42,44	0
2	TD7	C	2001	33/33	0.98	0.06	12,19,41,42	0
2	TD7	D	2001	33/33	0.98	0.06	9,18,37,44	0
4	CA	A	2003	1/1	0.98	0.05	33,33,33,33	0
4	CA	C	2003	1/1	0.98	0.06	27,27,27,27	0
3	MG	D	2002	1/1	0.99	0.02	8,8,8,8	0
3	MG	B	2002	1/1	0.99	0.02	12,12,12,12	0
4	CA	B	2003	1/1	0.99	0.04	30,30,30,30	0
3	MG	C	2002	1/1	0.99	0.02	8,8,8,8	0
4	CA	D	2003	1/1	0.99	0.10	29,29,29,29	0
3	MG	A	2002	1/1	1.00	0.03	12,12,12,12	0

The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.



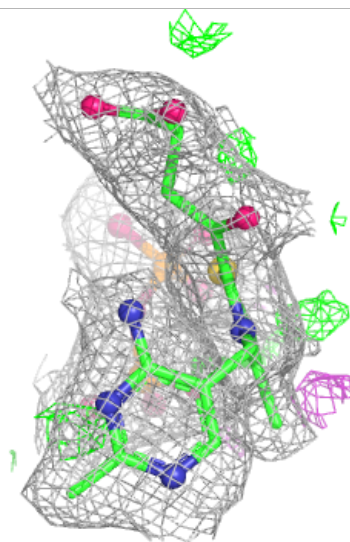
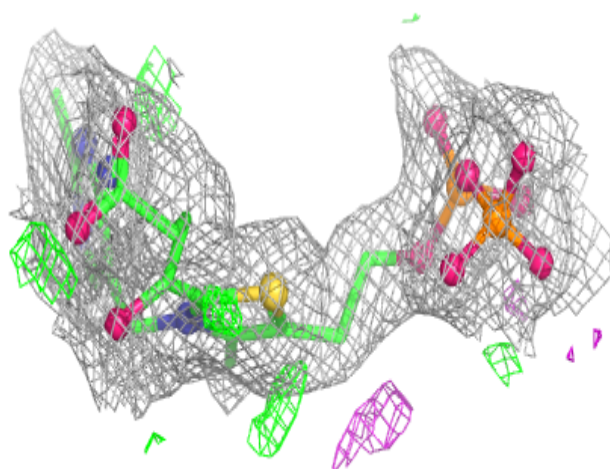
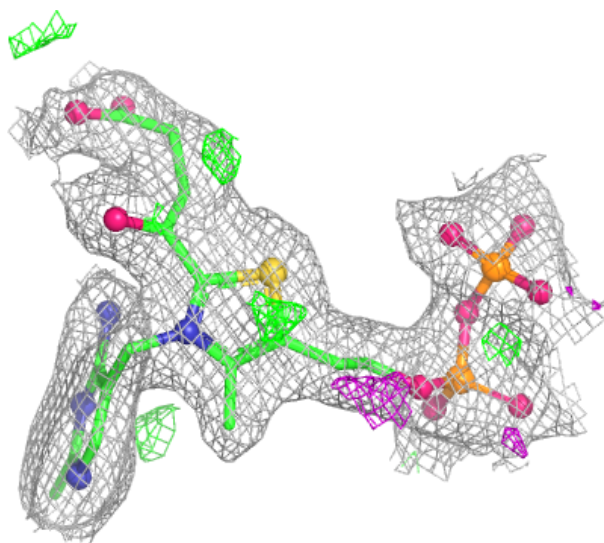
**Electron density around TD7 B 2001:**

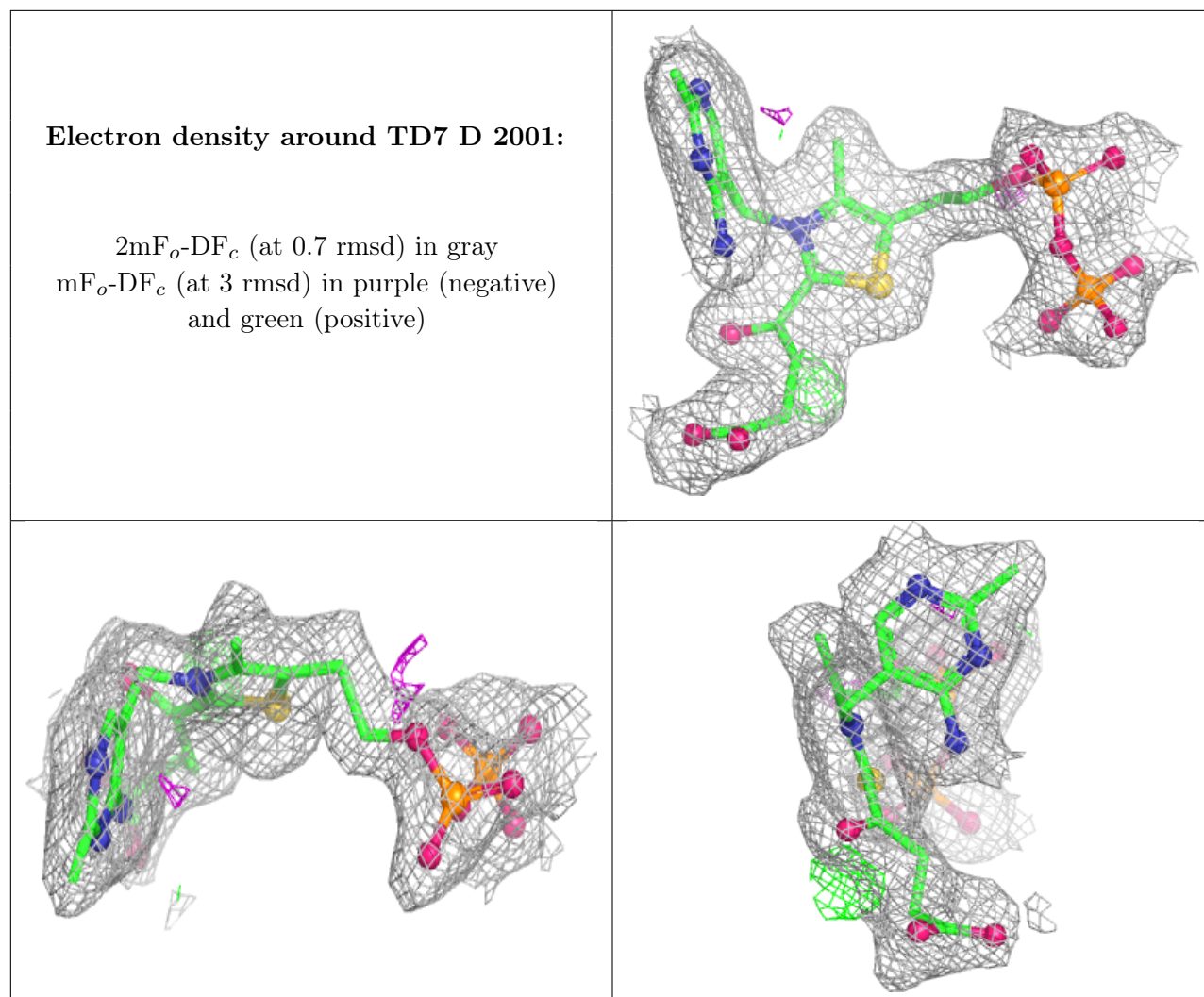
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



**Electron density around TD7 C 2001:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)





## 6.5 Other polymers [i](#)

There are no such residues in this entry.