



# wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 20, 2026 – 01:45 PM UTC

PDB ID : 7FEA / pdb\_00007fea  
Title : PY14 in complex with Col-D  
Authors : Lin, C.C.; Ko, T.P.; Huang, K.F.; Yang, Y.L.  
Deposited on : 2021-07-19  
Resolution : 1.40 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)

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<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

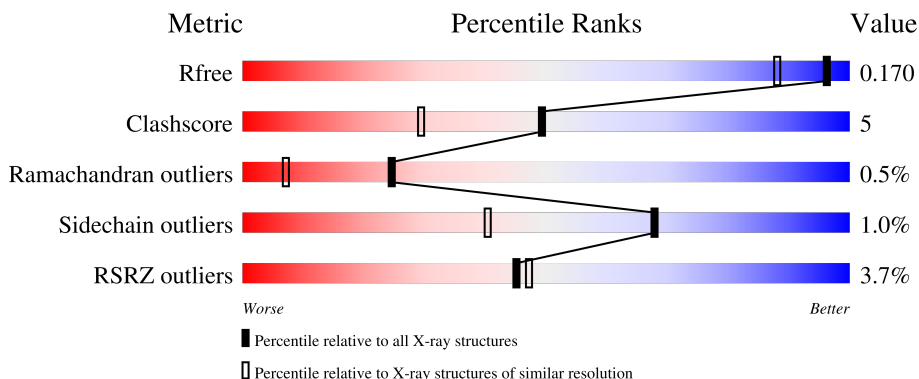
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

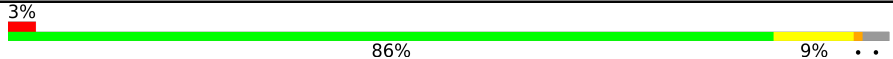
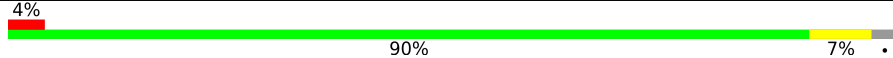
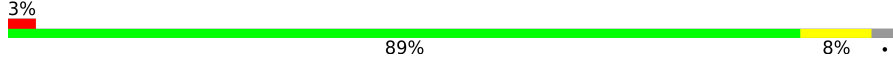

The reported resolution of this entry is 1.40 Å.

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	2563 (1.40-1.40)
Clashscore	190562	2660 (1.40-1.40)
Ramachandran outliers	187476	2611 (1.40-1.40)
Sidechain outliers	187428	2610 (1.40-1.40)
RSRZ outliers	180081	2561 (1.40-1.40)

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	407	 3% 86% 9% . .
1	B	407	 4% 90% 7% .
1	C	407	 3% 89% 8% .
1	D	407	 4% 88% 9% .

## 2 Entry composition [i](#)

There are 3 unique types of molecules in this entry. The entry contains 13559 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 Acetyl-CoA C-acyltransferase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	395	2955	1843	543	557	12	0	20	0
1	B	396	2948	1838	541	557	12	0	15	0
1	C	396	2947	1842	539	554	12	0	14	0
1	D	396	2958	1847	546	553	12	0	17	0

There are 60 discrepancies between the modelled and reference sequences:

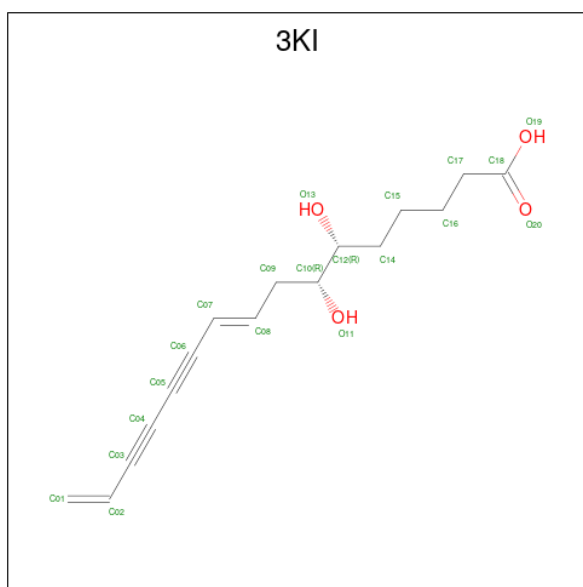
Chain	Residue	Modelled	Actual	Comment	Reference
A	1	MET	-	initiating methionine	UNP A0A7U5Y2I6
A	2	VAL	-	expression tag	UNP A0A7U5Y2I6
A	395	LYS	-	expression tag	UNP A0A7U5Y2I6
A	396	LEU	-	expression tag	UNP A0A7U5Y2I6
A	397	ALA	-	expression tag	UNP A0A7U5Y2I6
A	398	ALA	-	expression tag	UNP A0A7U5Y2I6
A	399	ALA	-	expression tag	UNP A0A7U5Y2I6
A	400	LEU	-	expression tag	UNP A0A7U5Y2I6
A	401	GLU	-	expression tag	UNP A0A7U5Y2I6
A	402	HIS	-	expression tag	UNP A0A7U5Y2I6
A	403	HIS	-	expression tag	UNP A0A7U5Y2I6
A	404	HIS	-	expression tag	UNP A0A7U5Y2I6
A	405	HIS	-	expression tag	UNP A0A7U5Y2I6
A	406	HIS	-	expression tag	UNP A0A7U5Y2I6
A	407	HIS	-	expression tag	UNP A0A7U5Y2I6
B	1	MET	-	initiating methionine	UNP A0A7U5Y2I6
B	2	VAL	-	expression tag	UNP A0A7U5Y2I6
B	395	LYS	-	expression tag	UNP A0A7U5Y2I6
B	396	LEU	-	expression tag	UNP A0A7U5Y2I6
B	397	ALA	-	expression tag	UNP A0A7U5Y2I6
B	398	ALA	-	expression tag	UNP A0A7U5Y2I6

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Chain	Residue	Modelled	Actual	Comment	Reference
B	399	ALA	-	expression tag	UNP A0A7U5Y2I6
B	400	LEU	-	expression tag	UNP A0A7U5Y2I6
B	401	GLU	-	expression tag	UNP A0A7U5Y2I6
B	402	HIS	-	expression tag	UNP A0A7U5Y2I6
B	403	HIS	-	expression tag	UNP A0A7U5Y2I6
B	404	HIS	-	expression tag	UNP A0A7U5Y2I6
B	405	HIS	-	expression tag	UNP A0A7U5Y2I6
B	406	HIS	-	expression tag	UNP A0A7U5Y2I6
B	407	HIS	-	expression tag	UNP A0A7U5Y2I6
C	1	MET	-	initiating methionine	UNP A0A7U5Y2I6
C	2	VAL	-	expression tag	UNP A0A7U5Y2I6
C	395	LYS	-	expression tag	UNP A0A7U5Y2I6
C	396	LEU	-	expression tag	UNP A0A7U5Y2I6
C	397	ALA	-	expression tag	UNP A0A7U5Y2I6
C	398	ALA	-	expression tag	UNP A0A7U5Y2I6
C	399	ALA	-	expression tag	UNP A0A7U5Y2I6
C	400	LEU	-	expression tag	UNP A0A7U5Y2I6
C	401	GLU	-	expression tag	UNP A0A7U5Y2I6
C	402	HIS	-	expression tag	UNP A0A7U5Y2I6
C	403	HIS	-	expression tag	UNP A0A7U5Y2I6
C	404	HIS	-	expression tag	UNP A0A7U5Y2I6
C	405	HIS	-	expression tag	UNP A0A7U5Y2I6
C	406	HIS	-	expression tag	UNP A0A7U5Y2I6
C	407	HIS	-	expression tag	UNP A0A7U5Y2I6
D	1	MET	-	initiating methionine	UNP A0A7U5Y2I6
D	2	VAL	-	expression tag	UNP A0A7U5Y2I6
D	395	LYS	-	expression tag	UNP A0A7U5Y2I6
D	396	LEU	-	expression tag	UNP A0A7U5Y2I6
D	397	ALA	-	expression tag	UNP A0A7U5Y2I6
D	398	ALA	-	expression tag	UNP A0A7U5Y2I6
D	399	ALA	-	expression tag	UNP A0A7U5Y2I6
D	400	LEU	-	expression tag	UNP A0A7U5Y2I6
D	401	GLU	-	expression tag	UNP A0A7U5Y2I6
D	402	HIS	-	expression tag	UNP A0A7U5Y2I6
D	403	HIS	-	expression tag	UNP A0A7U5Y2I6
D	404	HIS	-	expression tag	UNP A0A7U5Y2I6
D	405	HIS	-	expression tag	UNP A0A7U5Y2I6
D	406	HIS	-	expression tag	UNP A0A7U5Y2I6
D	407	HIS	-	expression tag	UNP A0A7U5Y2I6

- Molecule 2 is (6 {R},7 {R},9 {E})-6,7-bis(oxidanyl)hexadeca-9,15-dien-11,13-diynoic acid (CCD ID: 3KI) (formula: C<sub>16</sub>H<sub>20</sub>O<sub>4</sub>) (labeled as "Ligand of Interest" by depositor).

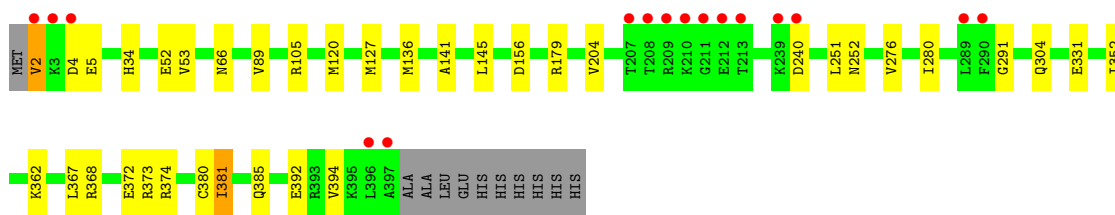


Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	1	Total	C O	0	0
			20	16 4		
2	B	1	Total	C O	0	0
			20	16 4		
2	C	1	Total	C O	0	0
			20	16 4		
2	D	1	Total	C O	0	0
			20	16 4		

- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	428	Total	O	0	0
			428	428		
3	B	414	Total	O	0	0
			414	414		
3	C	414	Total	O	0	0
			414	414		
3	D	415	Total	O	0	0
			415	415		





## 4 Data and refinement statistics

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	66.94Å 77.74Å 98.12Å 70.76° 81.78° 65.00°	Depositor
Resolution (Å)	27.16 – 1.40 27.16 – 1.40	Depositor EDS
% Data completeness (in resolution range)	88.0 (27.16-1.40) 88.0 (27.16-1.40)	Depositor EDS
$R_{merge}$	0.06	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	3.05 (at 1.40Å)	Xtrriage
Refinement program	PHENIX 1.17.1_3660	Depositor
R, $R_{free}$	0.146 , 0.163 0.146 , 0.170	Depositor DCC
$R_{free}$ test set	1296 reflections (0.39%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	13.9	Xtrriage
Anisotropy	0.107	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.39 , 49.7	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.49$ , $\langle L^2 \rangle = 0.33$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
$F_o, F_c$ correlation	0.97	EDS
Total number of atoms	13559	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	21.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.23% 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: 3KI

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	0.77	0/3097	0.90	5/4204 (0.1%)
1	B	0.72	0/3064	0.85	0/4161
1	C	0.70	0/3056	0.82	0/4151
1	D	0.71	0/3081	0.86	3/4183 (0.1%)
All	All	0.72	0/12298	0.86	8/16699 (0.0%)

There are no bond length outliers.

The worst 5 of 8 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	381[A]	ILE	N-CA-C	6.22	117.58	111.67
1	A	381[B]	ILE	N-CA-C	6.22	117.58	111.67
1	D	352	ILE	N-CA-C	5.67	116.32	110.36
1	D	381[A]	ILE	N-CA-C	5.37	116.77	111.67
1	D	381[B]	ILE	N-CA-C	5.37	116.77	111.67

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	2955	0	2988	45	1
1	B	2948	0	2965	29	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	C	2947	0	2992	27	0
1	D	2958	0	2998	35	0
2	A	20	0	0	0	0
2	B	20	0	0	0	0
2	C	20	0	0	1	0
2	D	20	0	0	0	0
3	A	428	0	0	16	2
3	B	414	0	0	12	3
3	C	414	0	0	7	0
3	D	415	0	0	16	2
All	All	13559	0	11943	130	4

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 5.

The worst 5 of 130 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:350:HIS:ND1	1:A:355[B]:THR:HG21	1.86	0.91
1:A:105[A]:ARG:NH2	3:A:603:HOH:O	2.10	0.84
1:D:240[A]:ASP:OD2	3:D:601:HOH:O	1.95	0.82
1:A:136[A]:MET:SD	3:A:938:HOH:O	2.38	0.82
1:B:120[A]:MET:SD	3:B:603:HOH:O	2.38	0.81

All (4) 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)
3:B:962:HOH:O	3:D:932:HOH:O[1_546]	2.06	0.14
3:A:809:HOH:O	3:B:630:HOH:O[1_554]	2.07	0.13
3:A:944:HOH:O	3:B:943:HOH:O[1_554]	2.15	0.05
1:A:330:ASP:OD1	3:D:604:HOH:O[1_545]	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	413/407 (102%)	403 (98%)	8 (2%)	2 (0%)	24	7
1	B	409/407 (100%)	399 (98%)	8 (2%)	2 (0%)	24	7
1	C	408/407 (100%)	399 (98%)	7 (2%)	2 (0%)	24	7
1	D	411/407 (101%)	403 (98%)	6 (2%)	2 (0%)	24	7
All	All	1641/1628 (101%)	1604 (98%)	29 (2%)	8 (0%)	24	7

5 of 8 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	66	ASN
1	A	89	VAL
1	B	89	VAL
1	C	89	VAL
1	D	66	ASN

### 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	308/298 (103%)	300 (97%)	8 (3%)	40	11
1	B	303/298 (102%)	298 (98%)	5 (2%)	53	21
1	C	303/298 (102%)	300 (99%)	3 (1%)	68	40
1	D	305/298 (102%)	304 (100%)	1 (0%)	86	70
All	All	1219/1192 (102%)	1202 (99%)	17 (1%)	68	28

5 of 17 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	C	239[A]	LYS
1	D	2	VAL

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Mol	Chain	Res	Type
1	A	239[B]	LYS
1	B	89	VAL
1	B	136[A]	MET

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 11 such sidechains are listed below:

Mol	Chain	Res	Type
1	C	306	GLN
1	D	140	GLN
1	D	304	GLN
1	D	157	GLN
1	C	103	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](#)

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	3KI	B	501	1	19,19,19	3.19	5 (26%)	19,21,21	3.00	7 (36%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
2	3KI	C	501	1	19,19,19	3.17	6 (31%)	19,21,21	2.36	4 (21%)
2	3KI	A	501	1	19,19,19	3.15	6 (31%)	19,21,21	2.36	5 (26%)
2	3KI	D	501	1	19,19,19	2.97	5 (26%)	19,21,21	2.36	3 (15%)

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	3KI	B	501	1	-	8/19/20/20	-
2	3KI	C	501	1	-	7/19/20/20	-
2	3KI	A	501	1	-	6/19/20/20	-
2	3KI	D	501	1	-	5/19/20/20	-

The worst 5 of 22 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	501	3KI	C02-C03	8.10	1.53	1.42
2	B	501	3KI	C02-C03	7.92	1.52	1.42
2	A	501	3KI	C02-C03	7.61	1.52	1.42
2	D	501	3KI	C02-C03	7.58	1.52	1.42
2	D	501	3KI	C05-C04	7.11	1.52	1.37

The worst 5 of 19 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	D	501	3KI	C07-C06-C05	-8.21	163.17	177.21
2	B	501	3KI	C07-C06-C05	-7.68	164.07	177.21
2	C	501	3KI	C06-C05-C04	-7.20	168.08	177.58
2	A	501	3KI	C07-C06-C05	-6.35	166.36	177.21
2	B	501	3KI	C06-C05-C04	-6.01	169.65	177.58

There are no chirality outliers.

5 of 26 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	501	3KI	C03-C04-C05-C06
2	A	501	3KI	C05-C06-C07-C08
2	B	501	3KI	C03-C04-C05-C06

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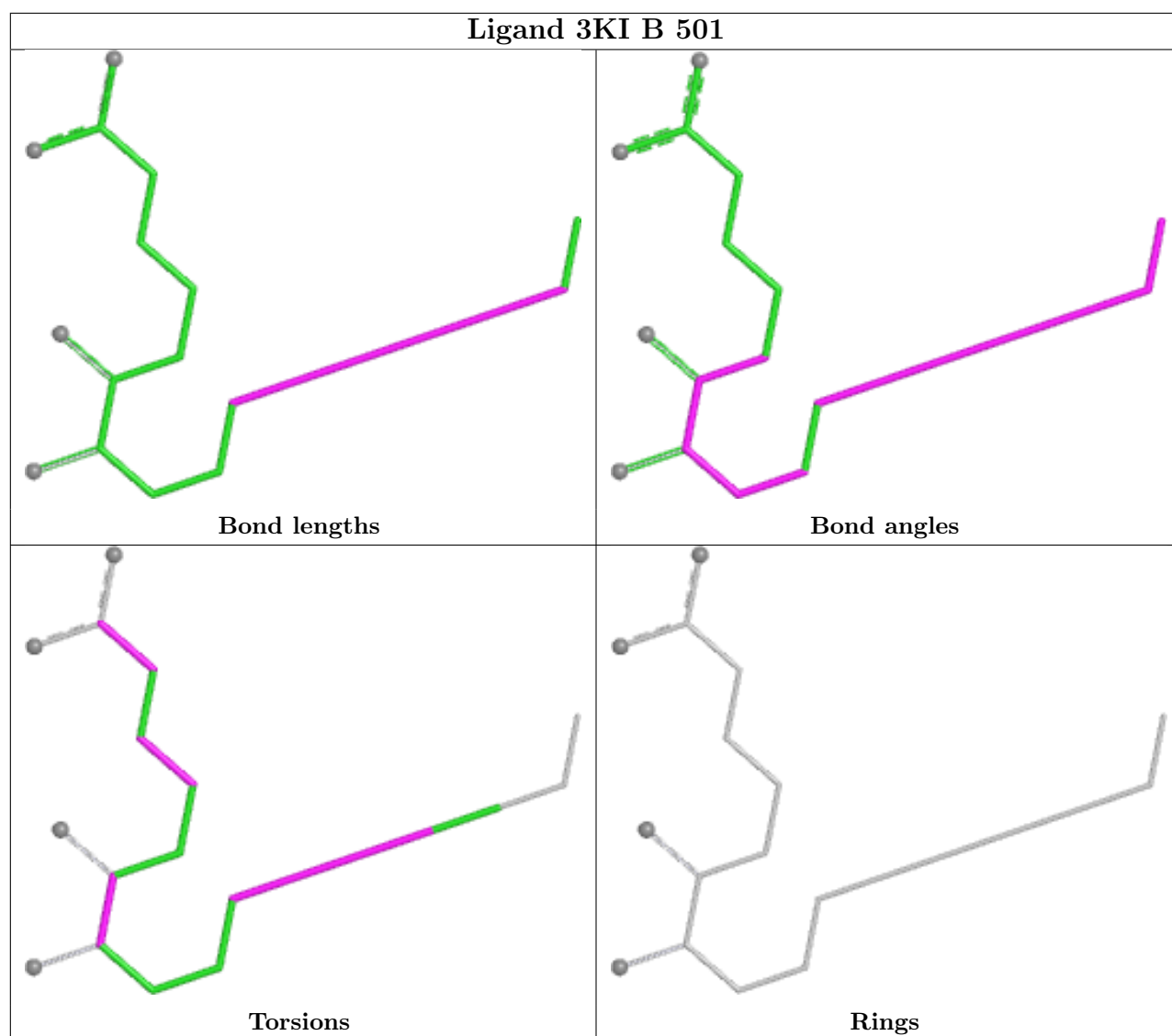
Mol	Chain	Res	Type	Atoms
2	B	501	3KI	C04-C05-C06-C07
2	B	501	3KI	C05-C06-C07-C08

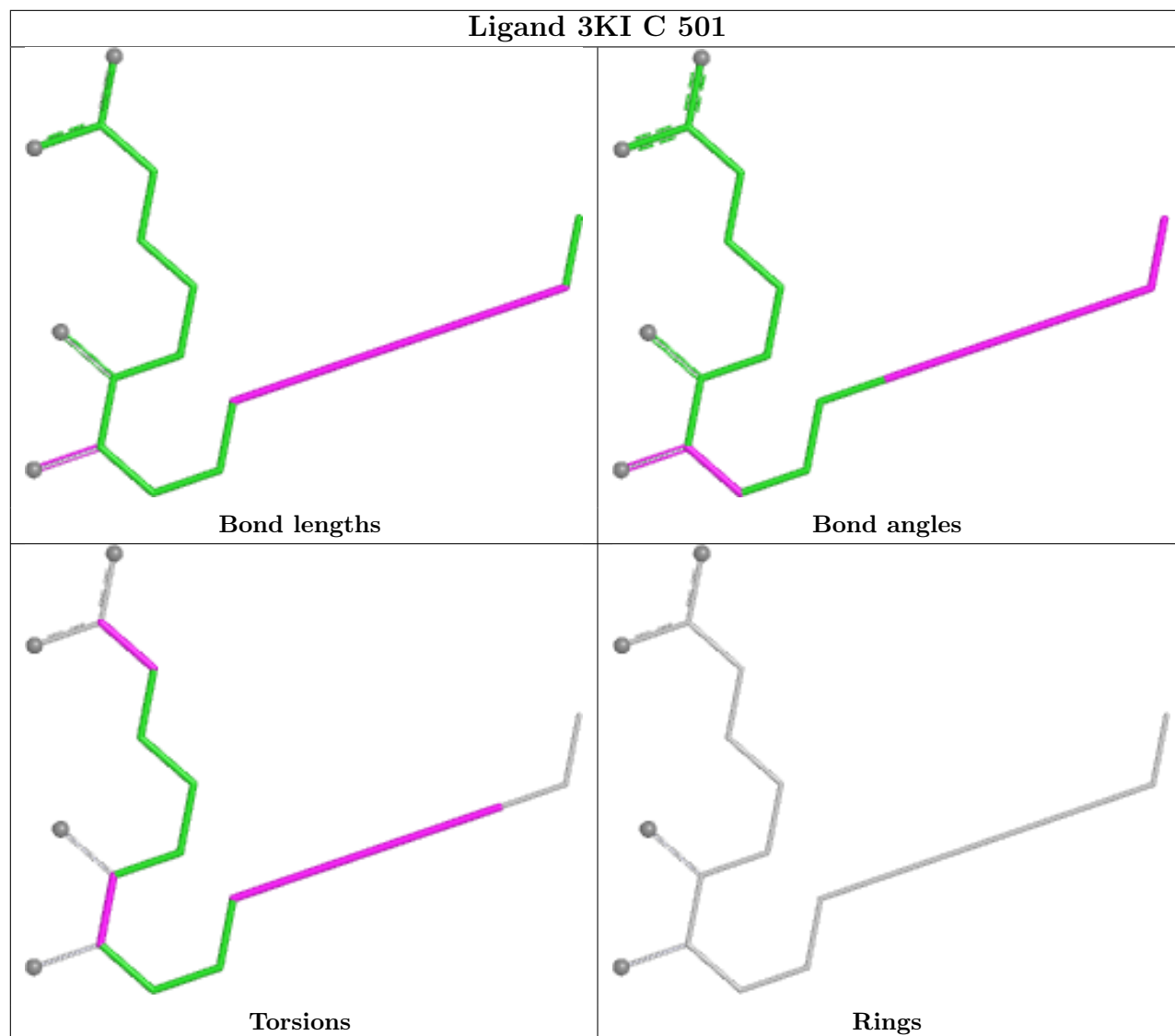
There are no ring outliers.

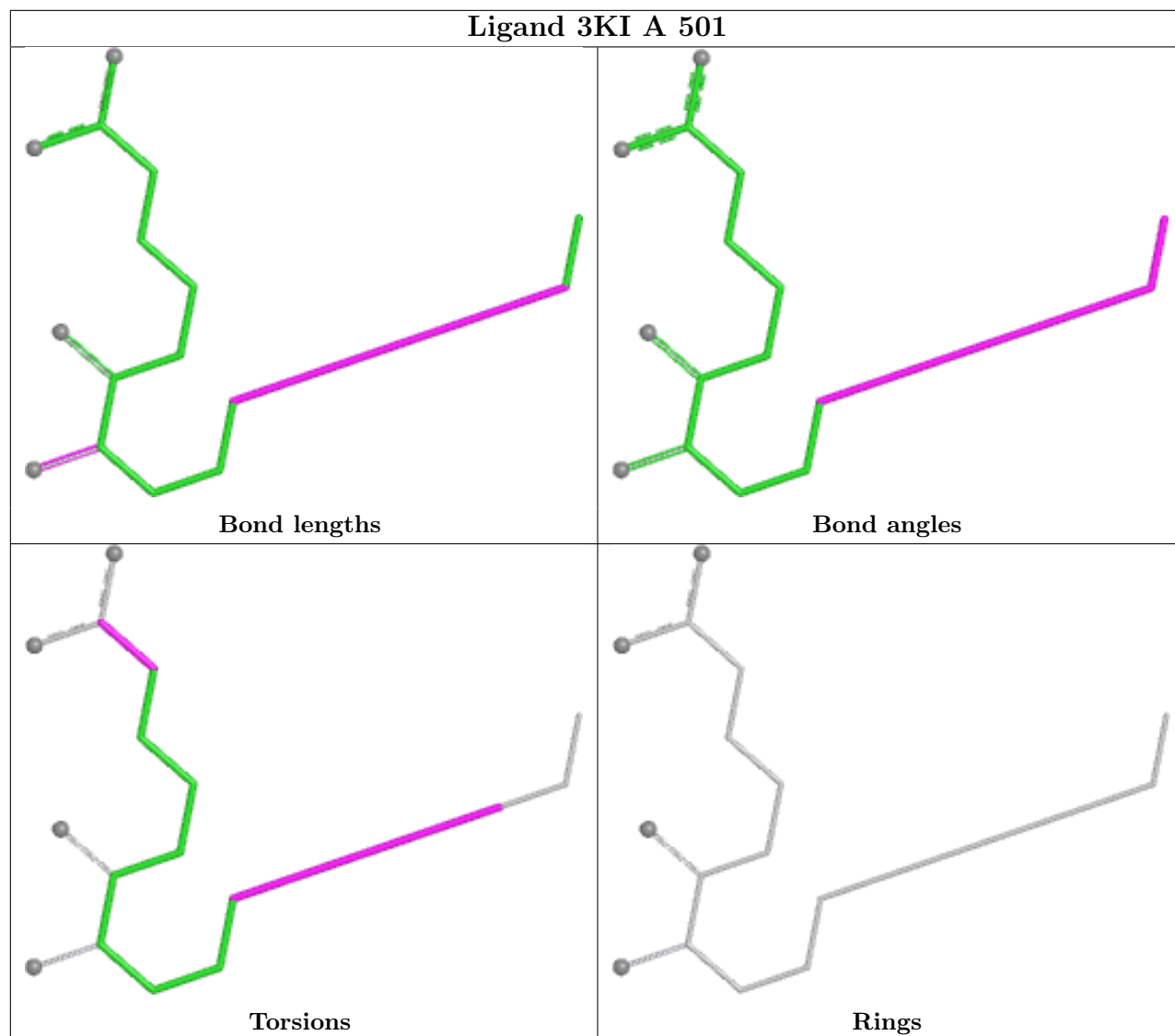
1 monomer is involved in 1 short contact:

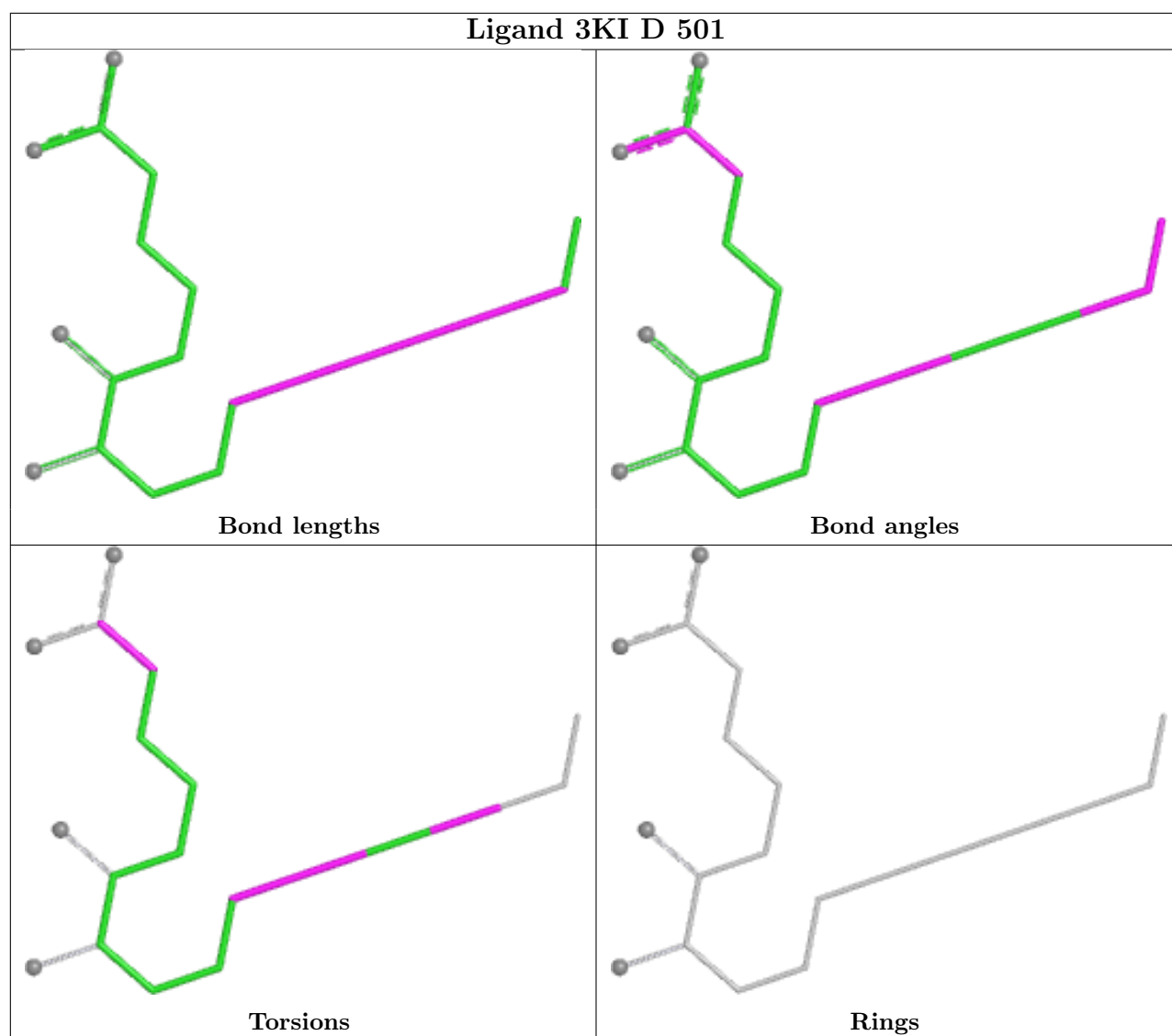
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	C	501	3KI	1	0

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	395/407 (97%)	-0.29	11 (2%) 55 57	9, 14, 33, 106	20 (5%)
1	B	396/407 (97%)	-0.13	17 (4%) 40 41	9, 16, 36, 111	15 (3%)
1	C	396/407 (97%)	-0.13	14 (3%) 47 49	10, 16, 37, 104	14 (3%)
1	D	396/407 (97%)	-0.15	16 (4%) 42 44	9, 16, 37, 108	17 (4%)
All	All	1583/1628 (97%)	-0.17	58 (3%) 45 47	9, 16, 36, 111	66 (4%)

The worst 5 of 58 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	D	2	VAL	11.6
1	B	2	VAL	7.1
1	A	2	VAL	7.0
1	C	2	VAL	6.9
1	B	211	GLY	5.8

### 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](#)

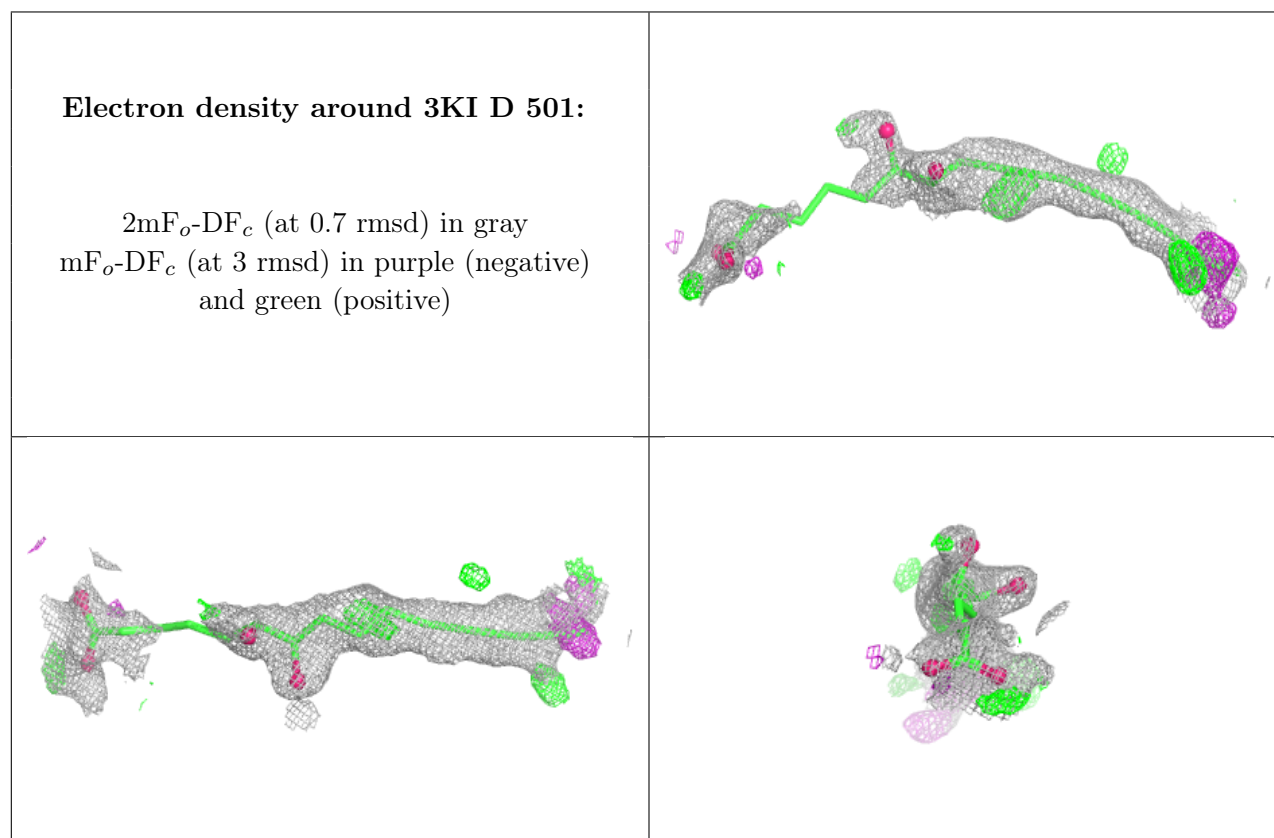
There are no oligosaccharides in this entry.

### 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.

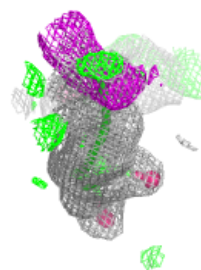
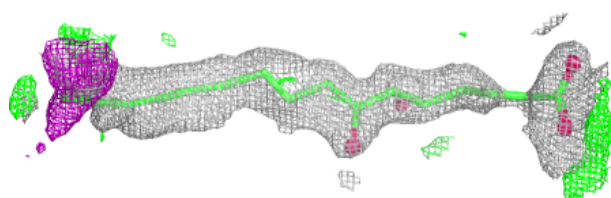
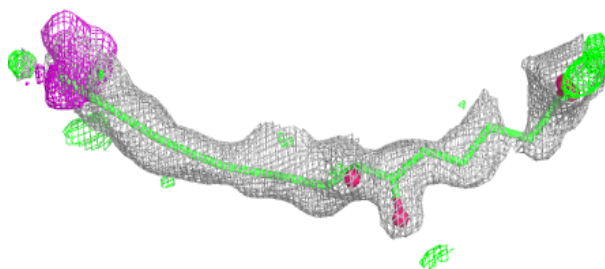
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
2	3KI	D	501	20/20	0.76	0.16	37,53,75,76	0
2	3KI	A	501	20/20	0.77	0.14	37,48,68,69	0
2	3KI	C	501	20/20	0.80	0.14	36,50,69,70	0
2	3KI	B	501	20/20	0.80	0.15	33,53,77,77	0

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.

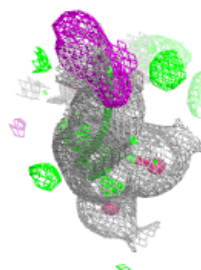
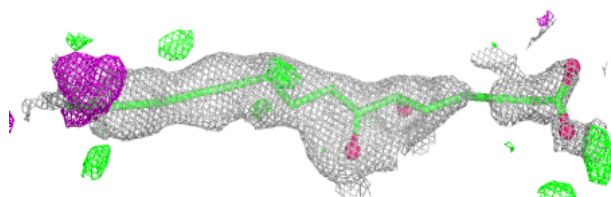
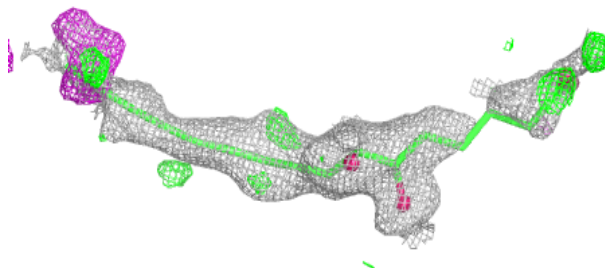


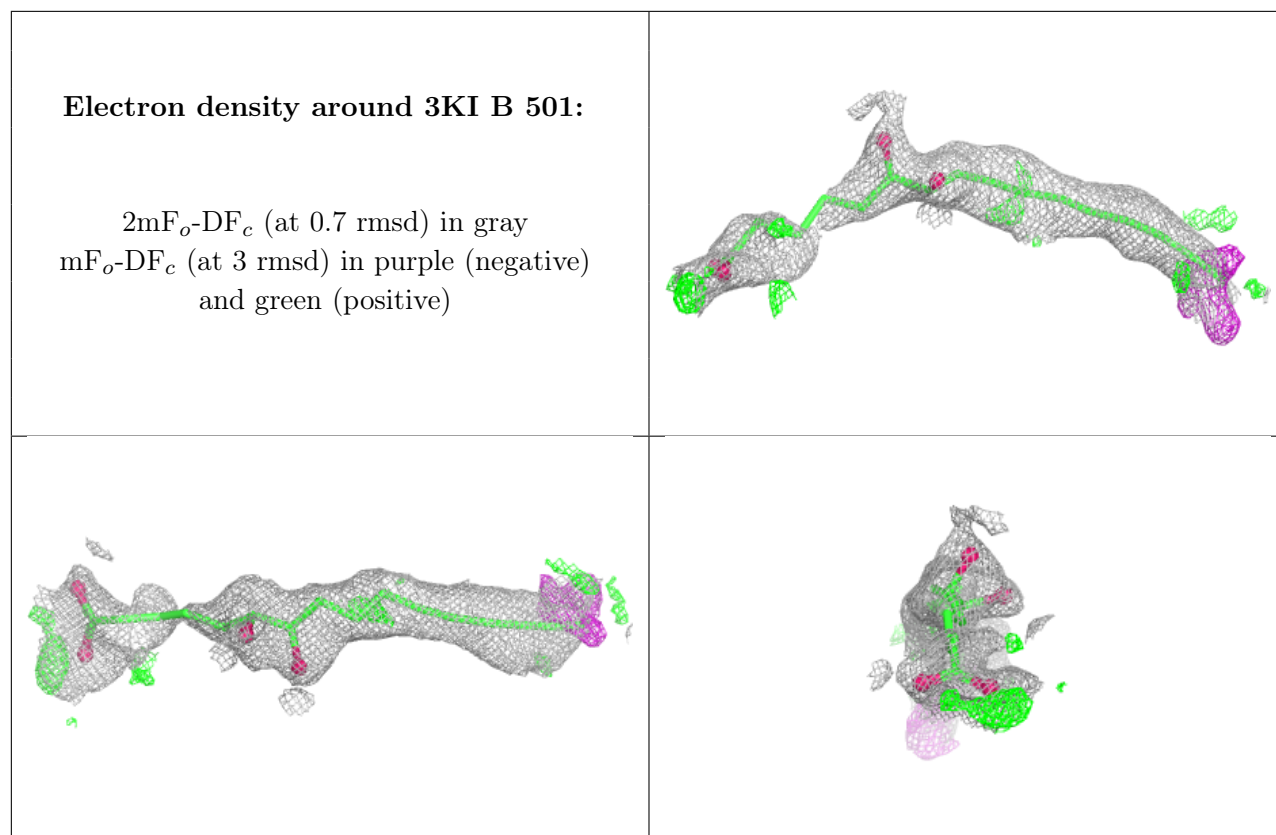
**Electron density around 3KI A 501:**

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

**Electron density around 3KI C 501:**

$2mF_o-DF_c$  (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.