



# Full wwPDB X-ray Structure Validation Report ⓘ

Nov 21, 2023 – 07:29 PM JST

PDB ID : 7WGQ  
Title : X-ray structure of human PPAR gamma ligand binding domain-pemafibrate co-crystals obtained by co-crystallization  
Authors : Kamata, S.; Honda, A.; Akahane, M.; Machida, Y.; Uchii, K.; Shiiyama, Y.; Masuda, R.; Oyama, T.; Ishii, I.  
Deposited on : 2021-12-28  
Resolution : 2.43 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](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 : 4.02b-467  
Mogul : 1.8.5 (274361), CSD as541be (2020)  
Xtriage (Phenix) : 1.13  
EDS : 2.36  
buster-report : 1.1.7 (2018)  
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) : 2.36

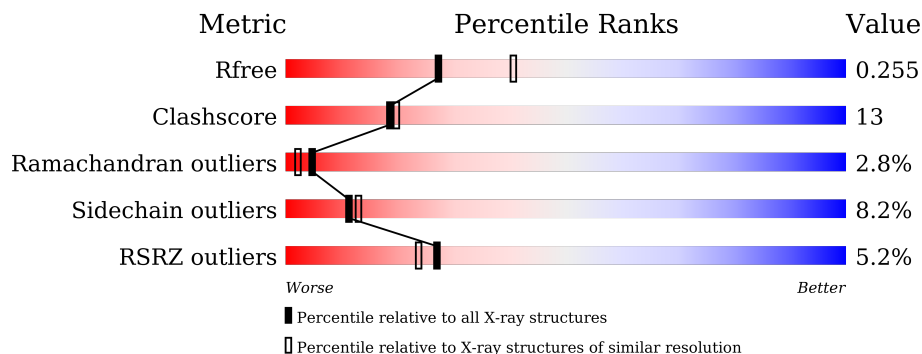
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 2.43 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	1564 (2.46-2.42)
Clashscore	141614	1631 (2.46-2.42)
Ramachandran outliers	138981	1617 (2.46-2.42)
Sidechain outliers	138945	1617 (2.46-2.42)
RSRZ outliers	127900	1547 (2.46-2.42)

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	279	
2	B	15	

## 2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 2379 atoms, of which 29 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 Isoform 1 of Peroxisome proliferator-activated receptor gamma.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	277	2219	1429	362	417	11	0	1	0

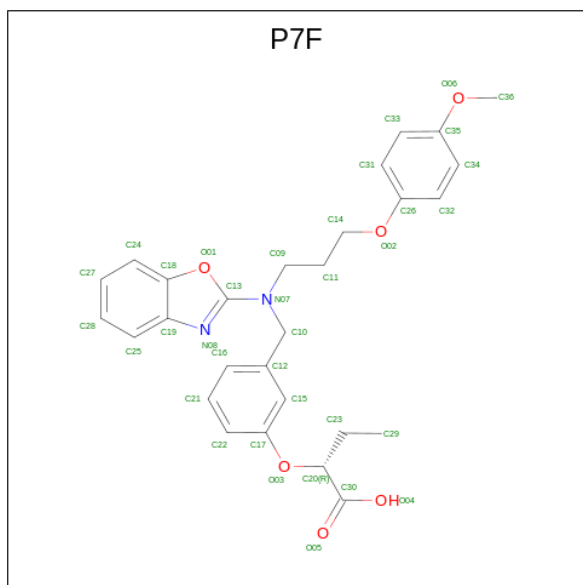
There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	199	GLY	-	expression tag	UNP P37231-2
A	200	SER	-	expression tag	UNP P37231-2
A	201	HIS	-	expression tag	UNP P37231-2
A	202	MET	-	expression tag	UNP P37231-2

- Molecule 2 is a protein called 15-meric peptide from Nuclear receptor coactivator 1.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
2	B	10	92	59	22	11	0	0	0

- Molecule 3 is (2 {R})-2-[3-[[1,3-benzoxazol-2-yl]-[3-(4-methoxyphenoxy)propyl]amino]methyl]phenoxy]butanoic acid (three-letter code: P7F) (formula: C<sub>28</sub>H<sub>30</sub>N<sub>2</sub>O<sub>6</sub>) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	H	N	O		
3	A	1	65	28	29	2	6	0	0

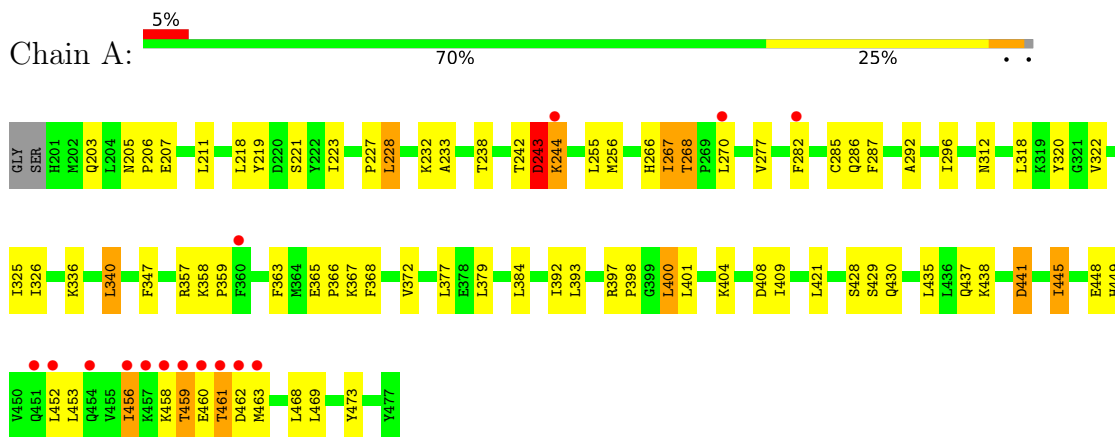
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	O		
4	A	3	3	3	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: Isoform 1 of Peroxisome proliferator-activated receptor gamma



- Molecule 2: 15-meric peptide from Nuclear receptor coactivator 1



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	49.42Å 63.32Å 123.52Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	38.59 – 2.43 45.89 – 2.43	Depositor EDS
% Data completeness (in resolution range)	98.5 (38.59-2.43) 98.3 (45.89-2.43)	Depositor EDS
$R_{merge}$	0.03	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	4.20 (at 2.42Å)	Xtrriage
Refinement program	PHENIX 1.11.1-2575-000	Depositor
R, $R_{free}$	0.207 , 0.252 0.214 , 0.255	Depositor DCC
$R_{free}$ test set	780 reflections (5.22%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	51.6	Xtrriage
Anisotropy	0.636	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.38 , 53.0	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.50$ , $\langle L^2 \rangle = 0.33$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
$F_o, F_c$ correlation	0.94	EDS
Total number of atoms	2379	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	60.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.43% 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: P7F

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	0.25	0/2258	0.40	0/3045
2	B	0.21	0/93	0.41	0/122
All	All	0.24	0/2351	0.40	0/3167

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	A	2219	0	2253	60	0
2	B	92	0	104	5	0
3	A	36	29	0	2	0
4	A	3	0	0	0	0
All	All	2350	29	2357	62	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 13.

All (62) 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:B:603:ARG:HG3	2:B:604:HIS:H	1.29	0.94
1:A:473:TYR:OH	3:A:501:P7F:O04	1.99	0.79
1:A:441:ASP:O	1:A:445:ILE:HG22	1.86	0.75
1:A:456:ILE:HD11	1:A:463:MET:HG2	1.70	0.73
1:A:397:ARG:HB2	1:A:400:LEU:HD21	1.71	0.71
1:A:318:LEU:O	1:A:322:VAL:HG13	1.92	0.69
1:A:393:LEU:HD22	1:A:409:ILE:CG2	2.23	0.69
1:A:325:ILE:HD11	1:A:392:ILE:HG13	1.77	0.67
1:A:397:ARG:HB2	1:A:400:LEU:CD2	2.24	0.66
1:A:242:THR:HG23	1:A:243:ASP:OD1	1.97	0.65
1:A:404:LYS:HE2	1:A:408:ASP:OD1	1.98	0.64
1:A:468:LEU:HD13	2:B:606:ILE:CG2	2.27	0.64
2:B:603:ARG:HG3	2:B:604:HIS:N	2.08	0.62
1:A:322:VAL:O	1:A:326:ILE:HG13	1.99	0.62
1:A:325:ILE:HD11	1:A:392:ILE:CG1	2.30	0.62
1:A:456:ILE:HD11	1:A:463:MET:CG	2.30	0.61
1:A:205:ASN:OD1	1:A:207:GLU:HB3	2.02	0.60
1:A:203:GLN:HG3	1:A:205:ASN:HD22	1.65	0.60
1:A:460:GLU:HG3	1:A:463:MET:HE3	1.83	0.60
1:A:357:ARG:NH2	1:A:460:GLU:OE2	2.26	0.59
1:A:452:LEU:O	1:A:452:LEU:HD23	2.03	0.59
1:A:461:THR:OG1	1:A:462:ASP:N	2.36	0.58
1:A:243:ASP:OD1	1:A:243:ASP:N	2.38	0.56
1:A:456:ILE:CD1	1:A:463:MET:HG2	2.35	0.56
1:A:320:TYR:CZ	1:A:398:PRO:HG2	2.43	0.54
1:A:459:THR:HG22	1:A:460:GLU:OE1	2.07	0.54
1:A:379:LEU:HD11	1:A:435:LEU:HD11	1.89	0.54
1:A:458:LYS:O	1:A:458:LYS:HG3	2.09	0.52
1:A:232:LYS:HE3	1:A:232:LYS:HA	1.92	0.52
1:A:267:ILE:O	1:A:268:THR:HB	2.10	0.52
1:A:453:LEU:O	1:A:456:ILE:HG23	2.11	0.51
1:A:397:ARG:O	1:A:400:LEU:HD22	2.10	0.50
1:A:368:PHE:O	1:A:372:VAL:HG23	2.11	0.50
1:A:205:ASN:HB2	1:A:206:PRO:HD2	1.94	0.49
1:A:363:PHE:CE1	1:A:449:HIS:HE1	2.31	0.48
1:A:456:ILE:CG1	1:A:463:MET:HG2	2.44	0.48
1:A:458:LYS:O	1:A:459:THR:OG1	2.27	0.48
1:A:367:LYS:N	1:A:367:LYS:HD2	2.29	0.48
1:A:268:THR:HG22	1:A:270:LEU:H	1.78	0.47
1:A:358:LYS:HG3	1:A:359:PRO:HA	1.96	0.47
1:A:238:THR:O	1:A:238:THR:HG22	2.14	0.47
1:A:452:LEU:O	1:A:456:ILE:HG22	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:205:ASN:HB2	1:A:206:PRO:CD	2.45	0.47
1:A:266:HIS:HB3	1:A:287:PHE:CD1	2.49	0.46
1:A:318:LEU:HD22	2:B:611:LEU:HD21	1.97	0.46
1:A:255:LEU:HD21	1:A:277:VAL:HB	1.96	0.46
1:A:393:LEU:HD22	1:A:409:ILE:HG21	1.96	0.46
1:A:468:LEU:HD13	2:B:606:ILE:HG21	1.96	0.46
1:A:429:SER:O	1:A:430:GLN:HB2	2.15	0.46
1:A:456:ILE:O	1:A:456:ILE:HG12	2.16	0.46
1:A:219:TYR:OH	1:A:223:ILE:HD11	2.18	0.44
1:A:340:LEU:HD13	1:A:347:PHE:HD1	1.83	0.43
1:A:435:LEU:HD12	1:A:435:LEU:HA	1.90	0.43
1:A:243:ASP:HB2	1:A:244:LYS:H	1.60	0.43
1:A:228:LEU:HD22	1:A:233:ALA:HB2	2.01	0.42
1:A:379:LEU:HD11	1:A:435:LEU:CD1	2.49	0.42
1:A:365:GLU:HB3	1:A:366:PRO:HD3	2.01	0.42
1:A:285:CYS:HB3	3:A:501:P7F:C15	2.49	0.42
1:A:292:ALA:O	1:A:296:ILE:HG13	2.20	0.42
1:A:282:PHE:HE2	1:A:286:GLN:HE21	1.67	0.41
1:A:453:LEU:HD12	1:A:453:LEU:HA	1.80	0.41
1:A:363:PHE:CZ	1:A:449:HIS:HE1	2.39	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	276/279 (99%)	256 (93%)	12 (4%)	8 (3%)	<b>4</b> <b>2</b>
2	B	8/15 (53%)	7 (88%)	1 (12%)	0	<b>100</b> <b>100</b>
All	All	284/294 (97%)	263 (93%)	13 (5%)	8 (3%)	<b>5</b> <b>2</b>

All (8) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	244	LYS
1	A	461	THR
1	A	267	ILE
1	A	459	THR
1	A	227	PRO
1	A	243	ASP
1	A	268	THR
1	A	428	SER

### 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	246/251 (98%)	224 (91%)	22 (9%)	9	10
2	B	10/14 (71%)	10 (100%)	0	100	100
All	All	256/265 (97%)	234 (91%)	22 (9%)	11	11

All (22) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	211	LEU
1	A	218	LEU
1	A	221	SER
1	A	228	LEU
1	A	243	ASP
1	A	256	MET
1	A	312	ASN
1	A	336	LYS
1	A	340	LEU
1	A	377	LEU
1	A	384	LEU
1	A	400	LEU
1	A	401	LEU
1	A	421	LEU
1	A	437	GLN
1	A	438	LYS

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Mol	Chain	Res	Type
1	A	441	ASP
1	A	445	ILE
1	A	448[A]	GLU
1	A	448[B]	GLU
1	A	456	ILE
1	A	469	LEU

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](#)

There are no non-standard protein/DNA/RNA residues in this entry.

## 5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

## 5.6 Ligand geometry [i](#)

1 ligand is 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
3	P7F	A	501	-	35,39,39	4.91	17 (48%)	41,52,52	1.14	3 (7%)

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
3	P7F	A	501	-	-	9/25/27/27	0/4/4/4

All (17) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	501	P7F	C25-C19	8.72	1.57	1.41
3	A	501	P7F	C33-C31	8.05	1.53	1.38
3	A	501	P7F	C34-C32	7.98	1.53	1.38
3	A	501	P7F	C15-C17	7.50	1.52	1.38
3	A	501	P7F	C15-C12	7.36	1.51	1.39
3	A	501	P7F	C21-C22	7.36	1.54	1.38
3	A	501	P7F	C33-C35	7.32	1.53	1.38
3	A	501	P7F	C22-C17	7.31	1.53	1.38
3	A	501	P7F	C34-C35	7.28	1.53	1.38
3	A	501	P7F	C32-C26	7.24	1.53	1.38
3	A	501	P7F	C31-C26	7.24	1.53	1.38
3	A	501	P7F	C21-C16	7.21	1.54	1.38
3	A	501	P7F	C16-C12	6.61	1.53	1.38
3	A	501	P7F	C28-C25	6.18	1.50	1.36
3	A	501	P7F	C27-C24	6.00	1.50	1.36
3	A	501	P7F	C28-C27	3.96	1.48	1.38
3	A	501	P7F	O03-C20	-2.34	1.41	1.43

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	501	P7F	C29-C23-C20	-4.27	108.32	113.37
3	A	501	P7F	O04-C30-C20	2.74	120.85	113.03
3	A	501	P7F	O04-C30-O05	-2.01	119.53	124.09

There are no chirality outliers.

All (9) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	501	P7F	O03-C20-C30-O04
3	A	501	P7F	C33-C35-O06-C36
3	A	501	P7F	C34-C35-O06-C36
3	A	501	P7F	C31-C26-O02-C14
3	A	501	P7F	C32-C26-O02-C14

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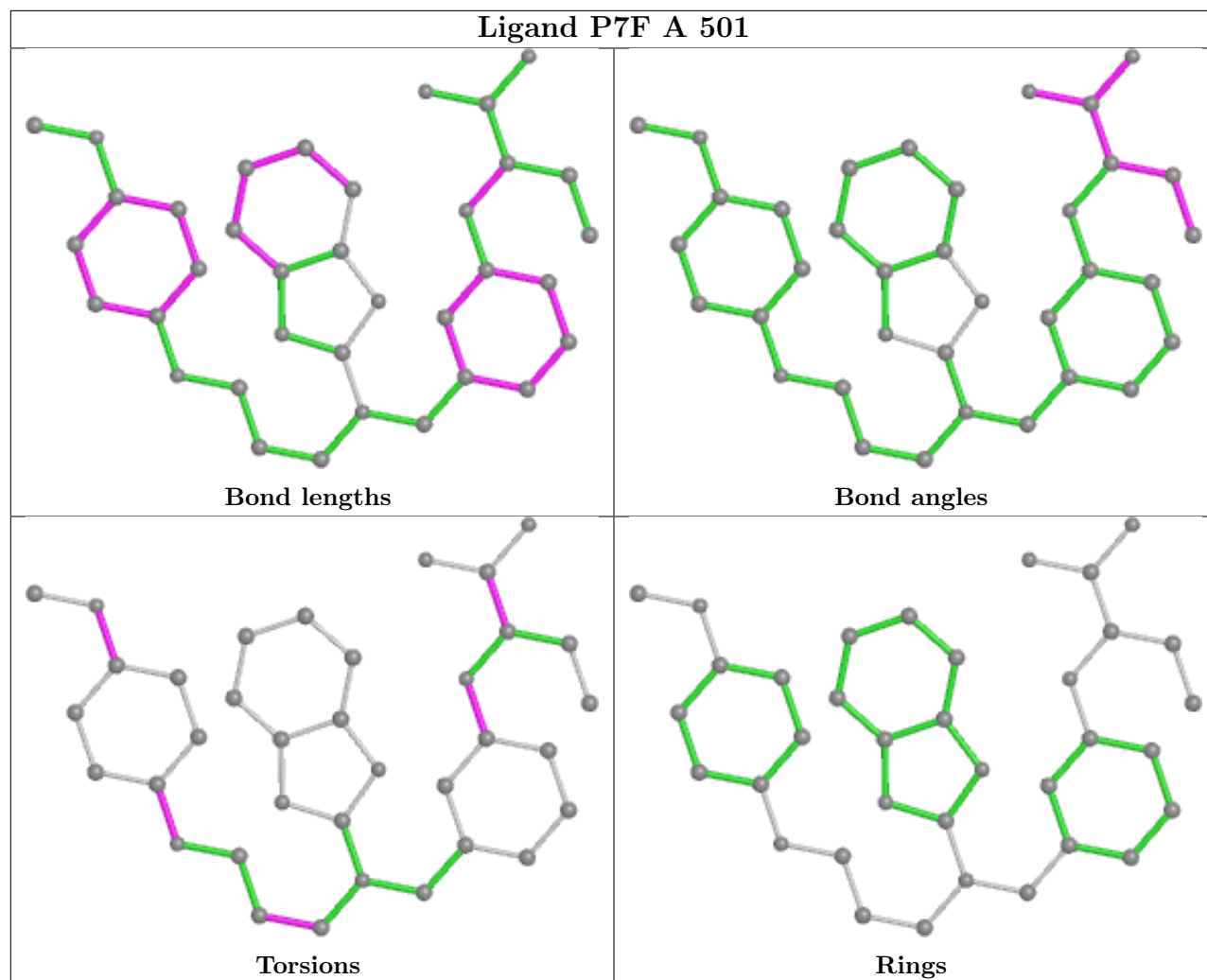
Mol	Chain	Res	Type	Atoms
3	A	501	P7F	N07-C09-C11-C14
3	A	501	P7F	O03-C20-C30-O05
3	A	501	P7F	C22-C17-O03-C20
3	A	501	P7F	C15-C17-O03-C20

There are no ring outliers.

1 monomer is involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	501	P7F	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	277/279 (99%)	0.45	15 (5%) 25 22	41, 56, 91, 124	0
2	B	10/15 (66%)	0.56	0 100 100	48, 59, 72, 78	0
All	All	287/294 (97%)	0.45	15 (5%) 27 24	41, 56, 91, 124	0

All (15) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	463	MET	5.0
1	A	458	LYS	4.9
1	A	461	THR	4.8
1	A	456	ILE	4.7
1	A	452	LEU	4.3
1	A	462	ASP	4.1
1	A	457	LYS	3.6
1	A	270	LEU	3.2
1	A	459	THR	2.6
1	A	244	LYS	2.6
1	A	282	PHE	2.5
1	A	360	PHE	2.3
1	A	451	GLN	2.2
1	A	454	GLN	2.1
1	A	460	GLU	2.0

### 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](#)

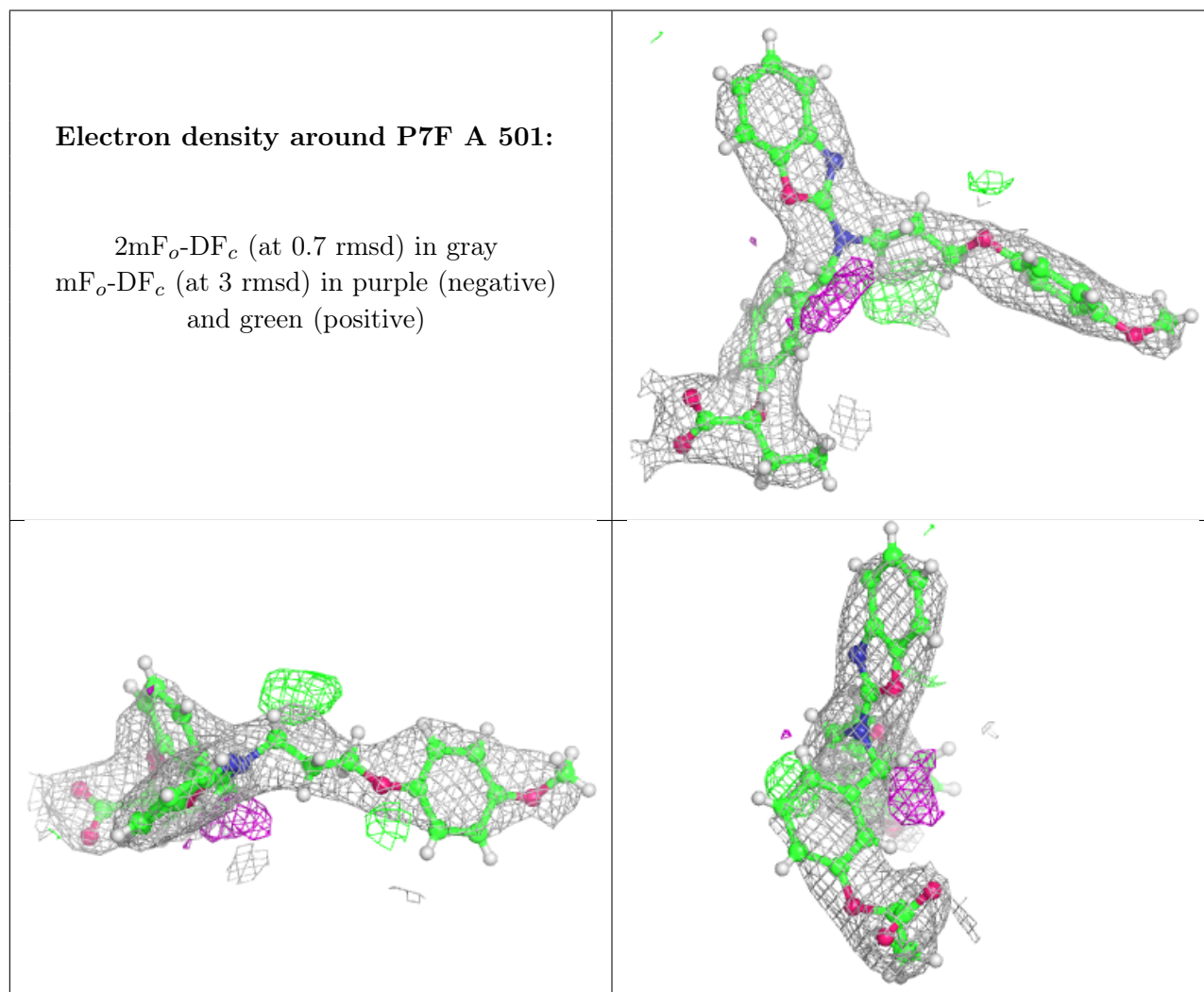
There are no monosaccharides in this entry.

## 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, 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(Å <sup>2</sup> )	Q<0.9
3	P7F	A	501	36/36	0.93	0.24	51,72,86,91	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.



## 6.5 Other polymers [i](#)

There are no such residues in this entry.