WORLDWIDE PDB PROTEIN DATA BANK

Full wwPDB X-ray Structure Validation Report ⓘ

Oct 4, 2023 – 04:06 AM EDT

PDB ID	:	6E5A
Title	:	PPARg in complex with compound 4b
Authors	:	Bruning, J.B.; Chua, B.S.K.
Deposited on	:	2018-07-19
Resolution	:	2.40 Å(reported)

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	:	2.35.1
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)	:	2.35.1

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 2.40 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.

■ Percentile relative to all X-ray structures

▯ Percentile relative to X-ray structures of similar resolution
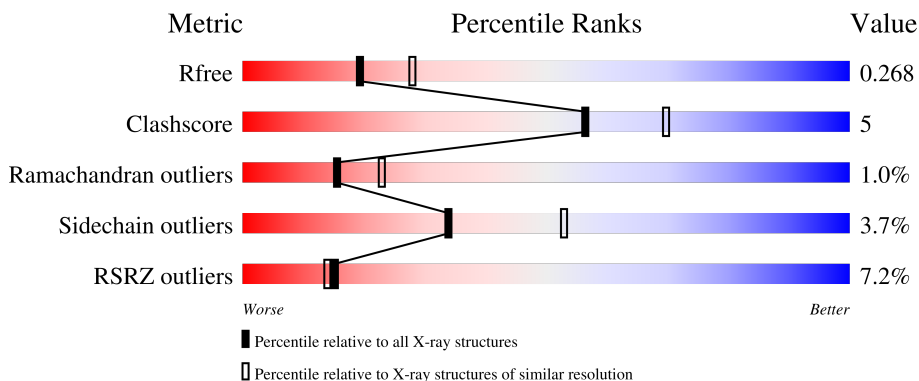
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	3907 (2.40-2.40)
Clashscore	141614	4398 (2.40-2.40)
Ramachandran outliers	138981	4318 (2.40-2.40)
Sidechain outliers	138945	4319 (2.40-2.40)
RSRZ outliers	127900	3811 (2.40-2.40)

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 >=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 <=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	273	8% / 81% 11% · 5%
1	B	273	6% / 81% 11% 7%

2 Entry composition ⓘ

There are 3 unique types of molecules in this entry. The entry contains 4142 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 Peroxisome proliferator-activated receptor gamma.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	259	Total	C	N	O	S	0	5	0
			2072	1335	335	389	13			
1	B	254	Total	C	N	O	S	0	1	0
			1979	1277	324	368	10			

- Molecule 2 is (5Z)-5-({4-[(prop-2-yn-1-yl)oxy]phenyl}methylidene)-2-sulfanylidene-1,3-thiazolidin-4-one (three-letter code: HV4) (formula: $C_{13}H_9NO_2S_2$).
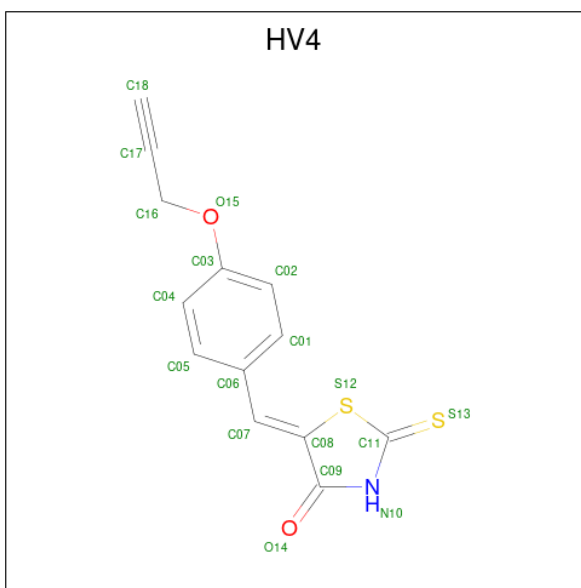
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
2	A	1	Total	C	N	O	S	0	0
			18	13	1	2	2		
2	B	1	Total	C	N	O	S	0	0
			18	13	1	2	2		

- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	25	Total 25	O 25	0	0
3	B	30	Total 30	O 30	0	0

3 Residue-property plots ⓘ

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: Peroxisome proliferator-activated receptor gamma

Chain A:

• Molecule 1: Peroxisome proliferator-activated receptor gamma

Chain B:
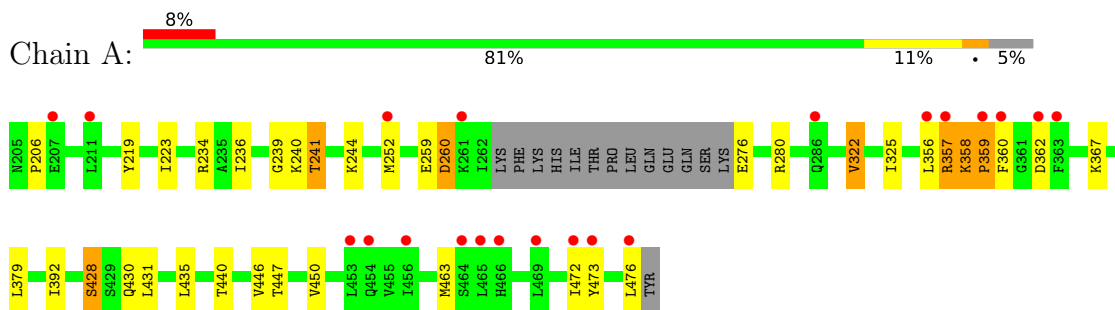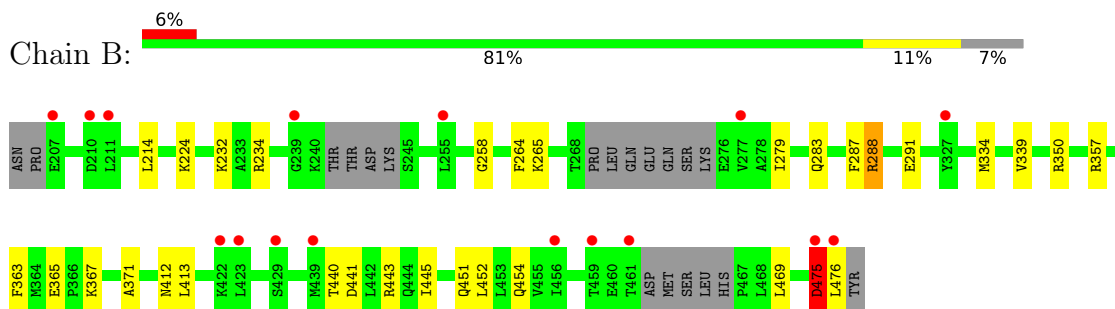
4 Data and refinement statistics (i)

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α, β, γ	92.56Å 61.16Å 118.09Å 90.00° 102.39° 90.00°	Depositor
Resolution (Å)	45.53 – 2.40	Depositor
	45.53 – 2.40	EDS
% Data completeness (in resolution range)	99.4 (45.53-2.40)	Depositor
	99.4 (45.53-2.40)	EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$<I/\sigma(I)>$ [1]	1.37 (at 2.39Å)	Xtriage
Refinement program	PHENIX 1.13_2998	Depositor
R, R_{free}	0.221 , 0.268	Depositor
	0.221 , 0.268	DCC
R_{free} test set	1272 reflections (5.03%)	wwPDB-VP
Wilson B-factor (Å^2)	61.9	Xtriage
Anisotropy	0.553	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.33 , 69.1	EDS
L-test for twinning[2]	$<|L|> = 0.50$, $<L^2> = 0.34$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.95	EDS
Total number of atoms	4142	wwPDB-VP
Average B, all atoms (Å^2)	90.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.97% of the height of the origin peak. No significant pseudotranslation is detected.*

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[1]Intensities estimated from amplitudes.
[2]Theoretical values of $<|L|>$, $<L^2>$ 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: HV4, CME

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	0/2100	0.43	0/2834
1	B	0.25	0/2001	0.42	0/2698
All	All	0.25	0/4101	0.43	0/5532

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

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	358	LYS	Peptide

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.

W O R L D W I D E
wwPDB
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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	2072	0	2101	24	0
1	B	1979	0	1981	19	0
2	A	18	0	0	0	0
2	B	18	0	0	1	0
3	A	25	0	0	2	0
3	B	30	0	0	1	0
All	All	4142	0	4082	41	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 5.

All (41) 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:B:287:PHE:HZ	1:B:469:LEU:HD11	1.57	0.68
1:B:279:ILE:O	1:B:283:GLN:HG2	1.96	0.66
1:A:440:THR:HG21	1:B:443:ARG:HD2	1.82	0.62
1:A:360:PHE:HZ	1:A:463:MET:HE1	1.65	0.61
1:B:363:PHE:HD1	1:B:452:LEU:HD23	1.64	0.61
1:B:367:LYS:NZ	3:B:603:HOH:O	2.34	0.60
1:A:367:LYS:NZ	3:A:602:HOH:O	2.33	0.60
1:B:214:LEU:HD21	1:B:413:LEU:HD23	1.84	0.59
1:B:279:ILE:HD11	1:B:357:ARG:HH22	1.69	0.56
1:A:428:SER:HB3	1:A:431:LEU:HB2	1.88	0.56
1:A:259:GLU:OE2	1:A:280:ARG:NH2	2.36	0.54
1:B:288:ARG:HG3	2:B:501:HV4:C09	2.38	0.53
1:A:236:ILE:HG12	1:A:244[A]:LYS:HB3	1.92	0.52
1:A:260:ASP:N	1:A:260:ASP:OD1	2.43	0.51
1:A:430:GLN:NE2	3:A:604:HOH:O	2.44	0.50
1:B:334:MET:HE3	1:B:371:ALA:HB2	1.94	0.49
1:A:322:VAL:HG11	1:A:472:ILE:HD13	1.94	0.49
1:A:219:TYR:CZ	1:A:223:ILE:HD11	2.48	0.48
1:A:450:VAL:HG12	1:A:473:TYR:CE1	2.48	0.48
1:B:334:MET:HG2	1:B:339:VAL:HB	1.96	0.47
1:A:325:ILE:HD11	1:A:392:ILE:HG13	1.96	0.47
1:B:350:ARG:NE	1:B:365:GLU:OE1	2.35	0.46
1:B:475:ASP:HB3	1:B:476:LEU:H	1.55	0.46
1:A:236:ILE:HG12	1:A:244[B]:LYS:HB3	1.98	0.46
1:A:360:PHE:CZ	1:A:463:MET:HE1	2.49	0.45
1:B:265:LYS:NZ	1:B:291:GLU:OE1	2.49	0.45
1:A:234[A]:ARG:HD3	1:A:234[A]:ARG:HA	1.79	0.45
1:A:450:VAL:HG12	1:A:473:TYR:CD1	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:446:VAL:O	1:A:450:VAL:HG13	2.17	0.45
1:B:451:GLN:O	1:B:454:GLN:HG3	2.17	0.44
1:A:447:THR:O	1:A:450:VAL:HG22	2.18	0.44
1:B:265:LYS:HE2	1:B:287:PHE:HB3	2.00	0.44
1:B:287:PHE:CZ	1:B:469:LEU:HD11	2.45	0.44
1:A:473:TYR:HA	1:A:476:LEU:HD22	2.01	0.43
1:A:357:ARG:O	1:A:359:PRO:HD2	2.18	0.42
1:A:440:THR:CG2	1:B:443:ARG:HD2	2.49	0.41
1:B:258:GLY:O	1:B:264:PHE:HE1	2.02	0.41
1:A:239:GLY:C	1:A:241:THR:H	2.24	0.41
1:A:241:THR:HG21	1:A:244[A]:LYS:NZ	2.36	0.41
1:A:379:LEU:HD11	1:A:435:LEU:HD13	2.01	0.41
1:B:441:ASP:O	1:B:445:ILE:HG12	2.21	0.41

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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	258/273 (94%)	249 (96%)	5 (2%)	4 (2%)	9	13
1	B	246/273 (90%)	236 (96%)	9 (4%)	1 (0%)	34	48
All	All	504/546 (92%)	485 (96%)	14 (3%)	5 (1%)	15	23

All (5) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	358	LYS
1	A	206	PRO
1	A	240	LYS
1	A	359	PRO
1	B	475	ASP

5.3.2　Protein sidechains ⓘ

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	226/245 (92%)	217 (96%)	9 (4%)	31	49
1	B	210/245 (86%)	203 (97%)	7 (3%)	38	57
All	All	436/490 (89%)	420 (96%)	16 (4%)	34	53

All (16) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	241	THR
1	A	252	MET
1	A	260	ASP
1	A	276	GLU
1	A	322	VAL
1	A	356	LEU
1	A	357	ARG
1	A	362	ASP
1	A	428	SER
1	B	224	LYS
1	B	232	LYS
1	B	234	ARG
1	B	288	ARG
1	B	412	ASN
1	B	440	THR
1	B	475	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

5.3.3　RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

3 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	CME	A	285[B]	-	8,9,10	1.01	0	5,9,11	0.64	0
1	CME	B	285	1	8,9,10	1.00	0	5,9,11	0.76	0
1	CME	A	285[A]	-	8,9,10	1.00	0	5,9,11	0.64	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
1	CME	A	285[B]	-	-	2/5/8/10	-
1	CME	B	285	1	-	0/5/8/10	-
1	CME	A	285[A]	-	-	1/5/8/10	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (3) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	A	285[B]	CME	SD-CE-CZ-OH
1	A	285[B]	CME	CE-SD-SG-CB
1	A	285[A]	CME	N-CA-CB-SG

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

2 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	HV4	A	501	-	19,19,19	2.48	6 (31%)	25,25,25	2.56	4 (16%)
2	HV4	B	501	-	19,19,19	2.50	6 (31%)	25,25,25	2.64	4 (16%)

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	HV4	A	501	-	-	3/8/20/20	0/2/2/2
2	HV4	B	501	-	-	4/8/20/20	0/2/2/2

All (12) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	501	HV4	C11-S12	-7.68	1.64	1.74
2	A	501	HV4	C11-S12	-7.64	1.64	1.74
2	A	501	HV4	C06-C07	3.57	1.53	1.46
2	B	501	HV4	C06-C07	3.52	1.53	1.46
2	B	501	HV4	C11-S13	-3.49	1.59	1.66
2	A	501	HV4	C11-S13	-3.48	1.60	1.66
2	B	501	HV4	C08-S12	-3.15	1.67	1.73
2	A	501	HV4	C08-S12	-3.04	1.67	1.73
2	A	501	HV4	O14-C09	-2.48	1.18	1.23
2	B	501	HV4	O14-C09	-2.46	1.18	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	501	HV4	C09-C08	-2.23	1.44	1.48
2	A	501	HV4	C09-C08	-2.22	1.44	1.48

All (8) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	A	501	HV4	C11-S12-C08	11.24	98.28	92.42
2	B	501	HV4	C11-S12-C08	11.24	98.28	92.42
2	B	501	HV4	C07-C08-C09	3.95	123.59	120.47
2	A	501	HV4	C09-C08-S12	-3.25	107.41	109.84
2	A	501	HV4	C07-C08-C09	3.19	122.99	120.47
2	B	501	HV4	C06-C07-C08	-3.18	126.59	130.94
2	B	501	HV4	C09-C08-S12	-3.10	107.53	109.84
2	A	501	HV4	C06-C07-C08	-2.43	127.61	130.94

There are no chirality outliers.

All (7) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	501	HV4	O15-C16-C17-C18
2	B	501	HV4	O15-C16-C17-C18
2	A	501	HV4	C02-C03-O15-C16
2	A	501	HV4	C04-C03-O15-C16
2	B	501	HV4	C02-C03-O15-C16
2	B	501	HV4	C04-C03-O15-C16
2	B	501	HV4	C06-C07-C08-S12

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	501	HV4	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 then 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.

Ligand HV4 A 501

Bond lengths — Bond angles — Torsions — Rings

Ligand HV4 B 501

Bond lengths — Bond angles — Torsions — Rings
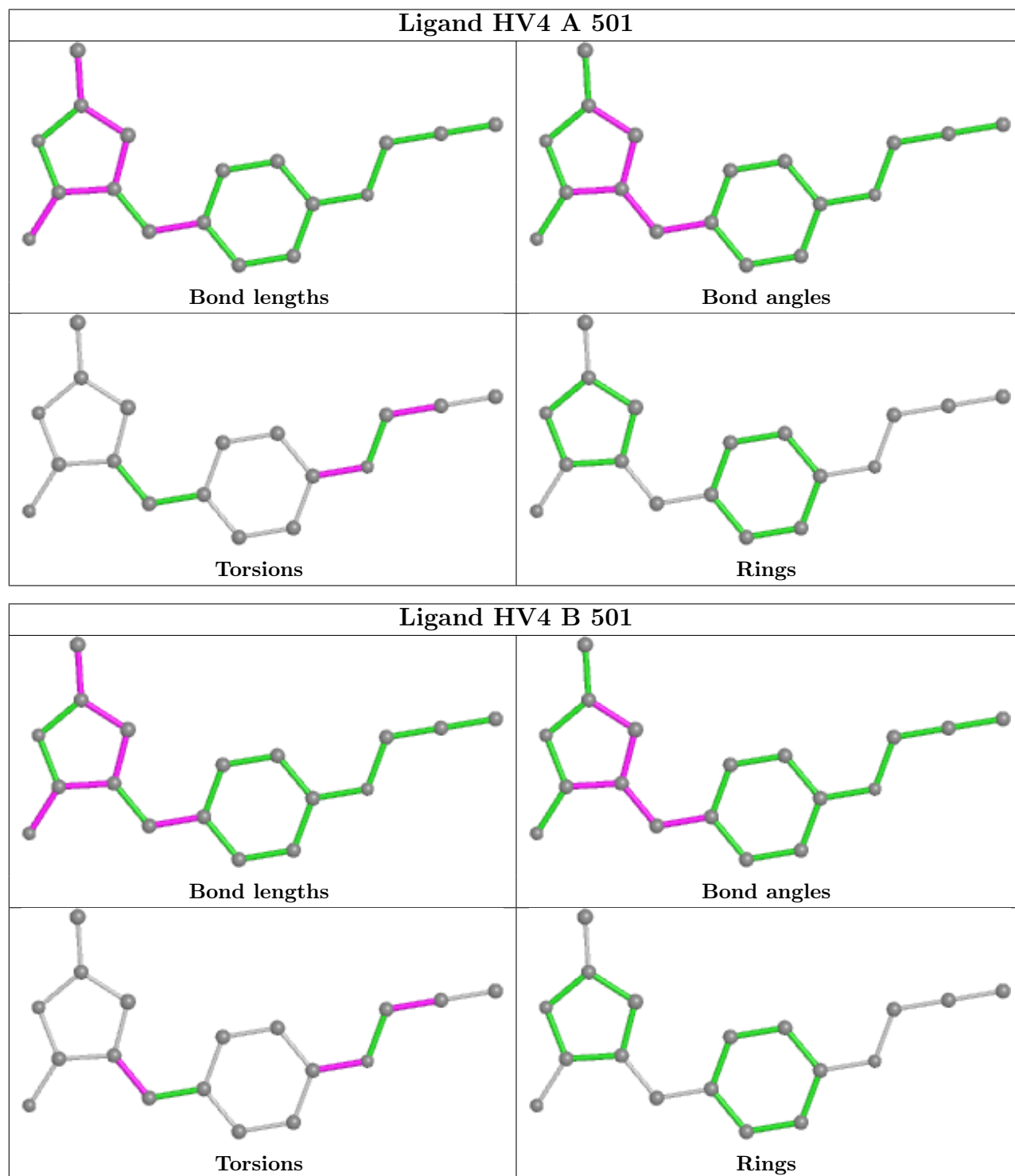
5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

There are no chain breaks in this entry.

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(Å²)	Q<0.9
1	A	258/273 (94%)	0.47	21 (8%)	12	11	53, 87, 136, 170	1 (0%)
1	B	253/273 (92%)	0.35	16 (6%)	20	18	50, 82, 144, 170	0
All	All	511/546 (93%)	0.41	37 (7%)	15	14	50, 84, 140, 170	1 (0%)

All (37) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	456	ILE	4.9
1	A	465	LEU	4.3
1	A	359	PRO	4.1
1	A	360	PHE	4.0
1	B	476	LEU	3.9
1	B	459	THR	3.5
1	B	461	THR	3.4
1	B	239	GLY	3.4
1	A	207	GLU	3.3
1	B	456	ILE	3.1
1	A	473	TYR	3.0
1	A	469	LEU	2.9
1	A	363	PHE	2.8
1	B	207	GLU	2.8
1	B	439	MET	2.8
1	A	252	MET	2.8
1	A	454	GLN	2.7
1	B	423	LEU	2.7
1	A	357	ARG	2.7
1	A	286	GLN	2.6
1	A	261	LYS	2.5
1	A	476	LEU	2.4
1	A	464	SER	2.4
1	A	466	HIS	2.4

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Mol	Chain	Res	Type	RSRZ
1	A	472	ILE	2.4
1	B	475	ASP	2.3
1	A	211	LEU	2.3
1	A	453	LEU	2.3
1	B	210	ASP	2.2
1	A	356	LEU	2.2
1	B	327	TYR	2.2
1	B	255	LEU	2.2
1	B	277	VAL	2.1
1	B	211	LEU	2.1
1	B	429	SER	2.1
1	A	362	ASP	2.0
1	B	422	LYS	2.0

6.2 Non-standard residues in protein, DNA, RNA chains ⓘ

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.

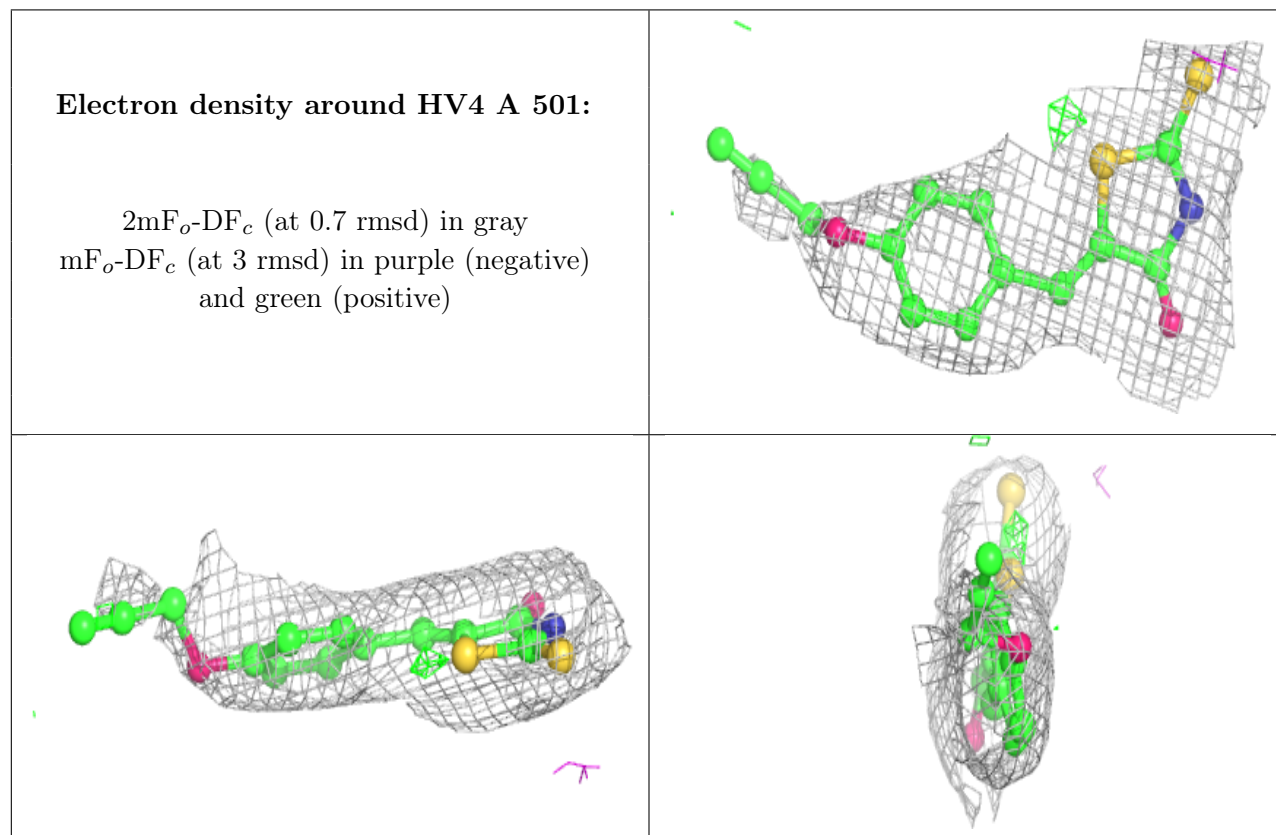| Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
1	CME	A	285[A]	10/11	0.87	0.16	78,94,107,109	7
1	CME	A	285[B]	10/11	0.87	0.16	78,94,107,110	7
1	CME	B	285	10/11	0.90	0.21	75,83,88,91	0

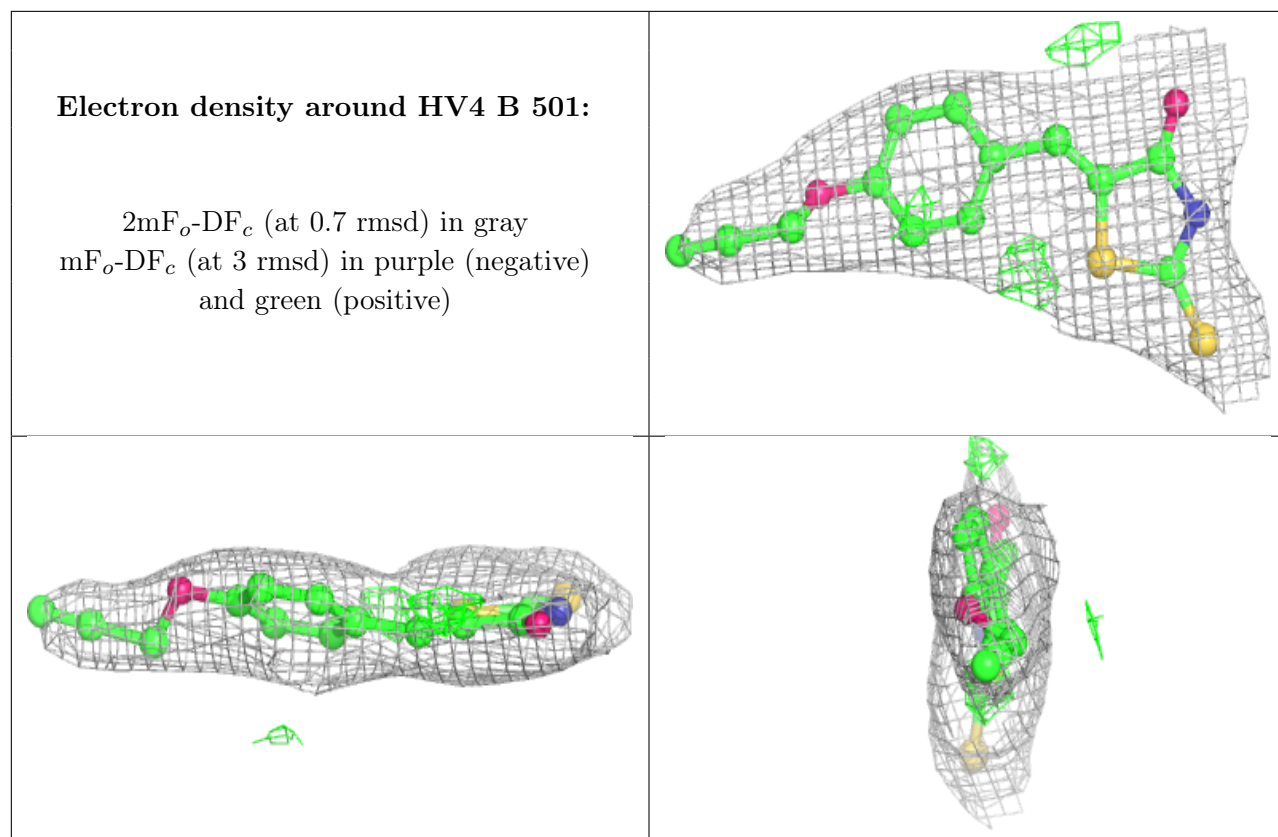## 6.3 Carbohydrates ⓘ

There are no monosaccharides in this entry.

6.4 Ligands ⓘ

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
2	HV4	A	501	18/18	0.87	0.25	83,110,125,128	0
2	HV4	B	501	18/18	0.91	0.14	67,75,86,90	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 HV4 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 HV4 B 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 ⓘ

There are no such residues in this entry.