



# Full wwPDB X-ray Structure Validation Report ⓘ

Oct 11, 2021 – 06:48 AM EDT

PDB ID : 3CLD  
Title : Ligand binding domain of the glucocorticoid receptor complexed with fluticazone furoate  
Authors : Shewchuk, L.M.; McLay, I.; Stewart, E.; Biggadike, K.B.; Hassell, A.M.; Bledsoe, R.K.  
Deposited on : 2008-03-18  
Resolution : 2.84 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.

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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 : 2.23.2  
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) : 2.23.2

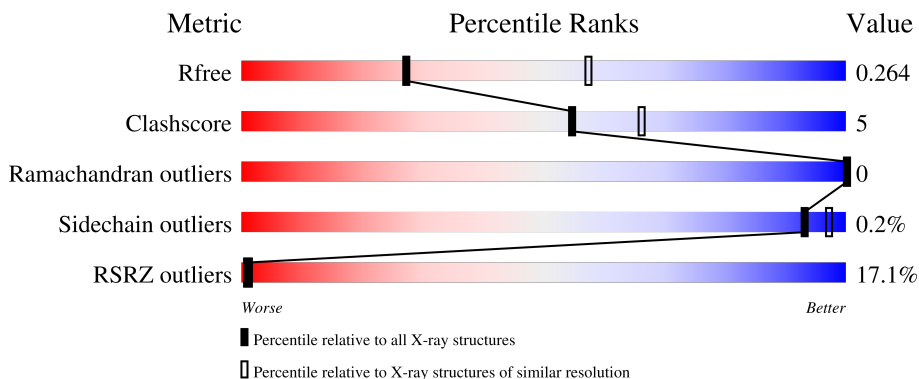
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 2.84 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	1031 (2.86-2.82)
Clashscore	141614	1078 (2.86-2.82)
Ramachandran outliers	138981	1050 (2.86-2.82)
Sidechain outliers	138945	1051 (2.86-2.82)
RSRZ outliers	127900	1019 (2.86-2.82)

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	259	<div> <div>16%</div> <div>82% 12% 6%</div> </div>
1	B	259	<div> <div>17%</div> <div>84% 9% 7%</div> </div>
2	C	12	<div> <div>50% 25% 25%</div> </div>
2	H	12	<div> <div>8%</div> <div>75% 25%</div> </div>

## 2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 4096 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 Glucocorticoid receptor.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	243	Total	C	N	O	S	0	0	0
			1940	1264	313	346	17			
1	B	241	Total	C	N	O	S	0	0	0
			1922	1252	310	343	17			

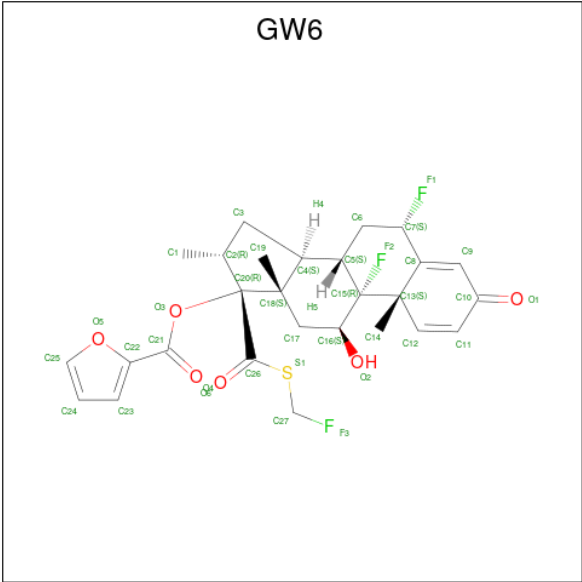
There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	519	GLY	-	expression tag	UNP P04150
A	520	SER	-	expression tag	UNP P04150
A	602	TYR	PHE	engineered mutation	UNP P04150
A	638	GLY	CYS	engineered mutation	UNP P04150
B	519	GLY	-	expression tag	UNP P04150
B	520	SER	-	expression tag	UNP P04150
B	602	TYR	PHE	engineered mutation	UNP P04150
B	638	GLY	CYS	engineered mutation	UNP P04150

- Molecule 2 is a protein called Tif2 coactivator motif.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
2	H	9	Total	C	N	O	0	0	0
			70	47	10	13			
2	C	9	Total	C	N	O	0	0	0
			70	47	10	13			

- Molecule 3 is (6alpha,11alpha,14beta,16alpha,17alpha)-6,9-difluoro-17-[[[(fluoromethyl)sulfany]carbonyl]-11-hydroxy-16-methyl-3-oxoandrosta-1,4-dien-17-yl]furan-2-carboxylate (three-letter code: GW6) (formula: C<sub>27</sub>H<sub>29</sub>F<sub>3</sub>O<sub>6</sub>S).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	A	1	Total	C	F	O	S	0	0
			37	27	3	6	1		
3	B	1	Total	C	F	O	S	0	0
			37	27	3	6	1		

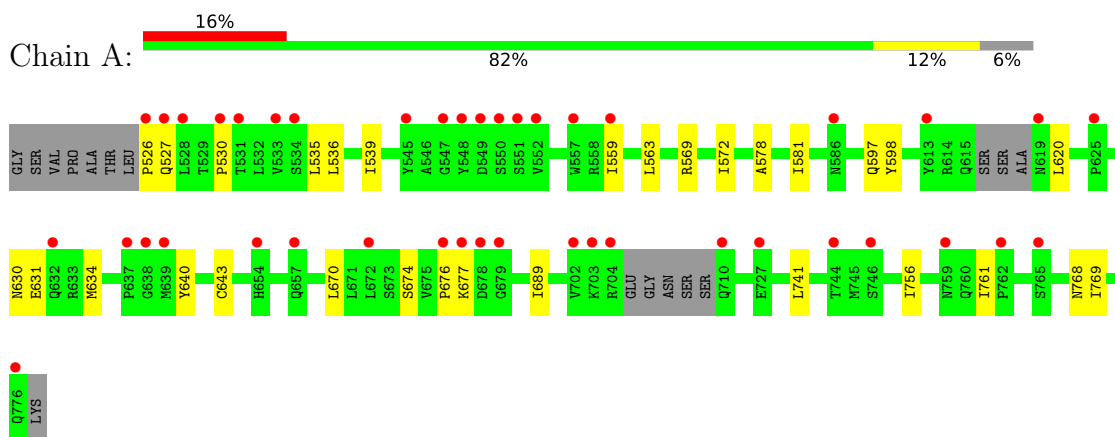
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	11	Total	O	0	0
			11	11		
4	B	9	Total	O	0	0
			9	9		

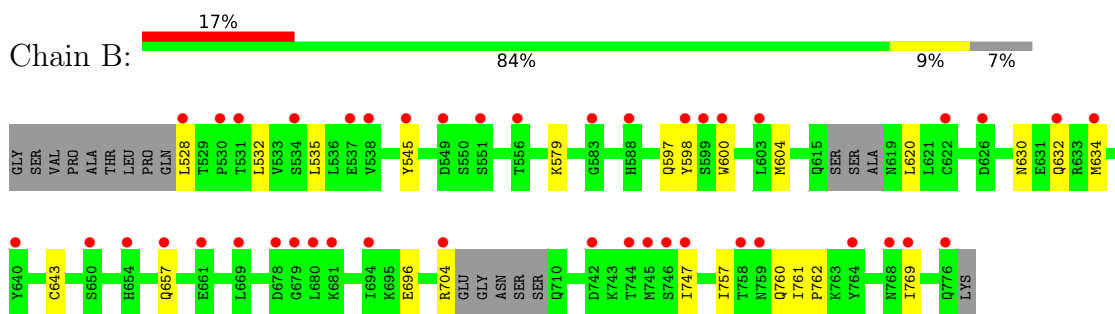
### 3 Residue-property plots [i](#)

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.

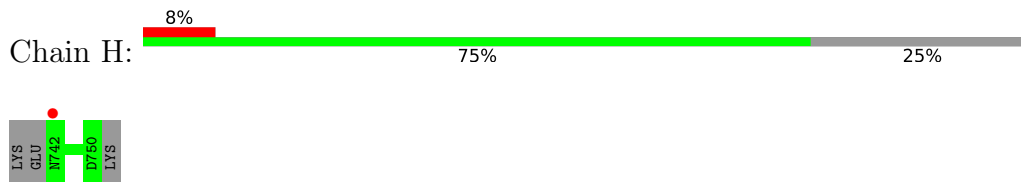
- Molecule 1: Glucocorticoid receptor



- Molecule 1: Glucocorticoid receptor



- Molecule 2: Tif2 coactivator motif



- Molecule 2: Tif2 coactivator motif



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 61	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	127.34Å 127.34Å 77.77Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	110.43 – 2.84 33.23 – 2.84	Depositor EDS
% Data completeness (in resolution range)	97.0 (110.43-2.84) 97.1 (33.23-2.84)	Depositor EDS
$R_{merge}$	0.07	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	3.03 (at 2.85Å)	Xtriage
Refinement program	REFMAC 5.2.0019	Depositor
R, $R_{free}$	0.207 , 0.267 0.206 , 0.264	Depositor DCC
$R_{free}$ test set	850 reflections (5.11%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	69.4	Xtriage
Anisotropy	0.561	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.36 , 96.1	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.51$ , $\langle L^2 \rangle = 0.34$	Xtriage
Estimated twinning fraction	0.035 for h,-h-k,-l	Xtriage
$F_o, F_c$ correlation	0.94	EDS
Total number of atoms	4096	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	74.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.62% 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: GW6

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	0.43	1/1983 (0.1%)	0.51	0/2688
1	B	0.45	2/1963 (0.1%)	0.51	0/2660
2	C	0.45	0/70	0.52	0/95
2	H	0.45	0/70	0.55	0/95
All	All	0.44	3/4086 (0.1%)	0.51	0/5538

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	632	GLN	CD-NE2	7.71	1.52	1.32
1	A	631	GLU	CD-OE1	6.54	1.32	1.25
1	B	632	GLN	CD-OE1	6.05	1.37	1.24

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	1940	0	1927	18	0
1	B	1922	0	1912	22	0
2	C	70	0	69	2	0
2	H	70	0	69	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	A	37	0	29	2	0
3	B	37	0	29	2	0
4	A	11	0	0	0	0
4	B	9	0	0	0	0
All	All	4096	0	4035	42	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 (42) 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:535:LEU:C	1:B:535:LEU:HD23	1.97	0.85
1:B:597:GLN:HB3	1:B:760:GLN:NE2	1.99	0.76
1:A:634:MET:HE3	1:A:634:MET:HA	1.75	0.68
1:B:535:LEU:HD23	1:B:535:LEU:O	1.95	0.66
1:A:689:ILE:HG12	1:B:528:LEU:HD21	1.78	0.65
1:B:598:TYR:CE2	1:B:769:ILE:HG12	2.35	0.61
1:B:634:MET:HE1	1:B:643:CYS:HB2	1.82	0.61
1:A:598:TYR:CE2	1:A:769:ILE:HG12	2.36	0.60
1:B:620:LEU:HD22	1:B:630:ASN:HA	1.85	0.58
1:A:634:MET:HE1	1:A:643:CYS:SG	2.45	0.56
2:C:742:ASN:ND2	2:C:745:LEU:HB2	2.20	0.56
1:B:535:LEU:C	1:B:535:LEU:CD2	2.72	0.56
1:B:757:ILE:O	1:B:761:ILE:HG12	2.06	0.55
1:A:598:TYR:HD2	1:A:674:SER:HB3	1.72	0.54
1:B:600:TRP:O	1:B:604:MET:HG2	2.08	0.53
3:A:1:GW6:C26	3:A:1:GW6:O4	2.57	0.52
1:A:640:TYR:HA	1:A:643:CYS:HB2	1.90	0.52
1:B:657:GLN:O	1:B:704:ARG:NH2	2.43	0.51
1:B:696:GLU:HA	1:B:696:GLU:OE1	2.11	0.50
1:A:536:LEU:HA	1:A:539:ILE:HG12	1.95	0.49
1:A:578:ALA:HA	1:A:581:ILE:HD12	1.94	0.48
1:B:579:LYS:HD3	2:C:749:LEU:HA	1.95	0.48
1:A:530:PRO:HD3	1:B:532:LEU:HD13	1.96	0.47
1:B:597:GLN:HB3	1:B:760:GLN:HE21	1.79	0.47
1:B:634:MET:HE1	1:B:643:CYS:CB	2.45	0.47
1:A:620:LEU:HD22	1:A:630:ASN:HA	1.98	0.45
1:A:677:LYS:N	1:A:768:ASN:O	2.48	0.45
1:B:597:GLN:CB	1:B:760:GLN:NE2	2.74	0.45
3:B:2:GW6:O2	3:B:2:GW6:H14	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:676:PRO:HA	1:A:768:ASN:O	2.17	0.43
1:A:569:ARG:HA	1:A:572:ILE:HD12	1.99	0.43
1:B:761:ILE:HB	1:B:762:PRO:HD3	2.01	0.43
1:A:741:LEU:HD11	1:A:761:ILE:HD13	1.99	0.43
1:A:597:GLN:HG2	1:A:756:ILE:HG23	2.01	0.43
1:A:670:LEU:HD23	1:A:670:LEU:HA	1.77	0.43
1:B:598:TYR:CZ	1:B:769:ILE:HG12	2.54	0.42
1:B:634:MET:HA	1:B:634:MET:CE	2.49	0.42
3:A:1:GW6:H14	3:A:1:GW6:O2	2.20	0.42
1:B:747:ILE:HG21	3:B:2:GW6:H27	2.02	0.41
1:B:545:TYR:CD1	1:B:545:TYR:N	2.88	0.41
1:A:559:ILE:O	1:A:563:LEU:HG	2.21	0.41
1:A:526:PRO:HB2	1:A:527:GLN:H	1.70	0.40

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	237/259 (92%)	226 (95%)	11 (5%)	0	100	100
1	B	235/259 (91%)	229 (97%)	6 (3%)	0	100	100
2	C	7/12 (58%)	7 (100%)	0	0	100	100
2	H	7/12 (58%)	7 (100%)	0	0	100	100
All	All	486/542 (90%)	469 (96%)	17 (4%)	0	100	100

There are no Ramachandran outliers to report.

### 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	209/236 (89%)	208 (100%)	1 (0%)	88	94
1	B	207/236 (88%)	207 (100%)	0	100	100
2	C	7/11 (64%)	7 (100%)	0	100	100
2	H	7/11 (64%)	7 (100%)	0	100	100
All	All	430/494 (87%)	429 (100%)	1 (0%)	93	97

All (1) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	535	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (7) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	570	GLN
1	A	759	ASN
1	A	760	GLN
1	B	570	GLN
1	B	588	HIS
1	B	760	GLN
2	C	742	ASN

### 5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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](#)

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	$\# Z  > 2$
3	GW6	A	1	-	34,41,41	1.53	7 (20%)	50,67,67	1.64	11 (22%)
3	GW6	B	2	-	34,41,41	1.51	6 (17%)	50,67,67	1.82	18 (36%)

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	GW6	A	1	-	-	4/12/97/97	0/5/5/5
3	GW6	B	2	-	-	3/12/97/97	0/5/5/5

All (13) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	1	GW6	C13-C15	-4.01	1.53	1.57
3	B	2	GW6	C13-C15	-3.92	1.53	1.57
3	A	1	GW6	C20-C2	-3.44	1.53	1.57
3	B	2	GW6	F2-C15	-3.06	1.36	1.42
3	B	2	GW6	C20-C2	-3.05	1.53	1.57
3	A	1	GW6	F2-C15	-2.81	1.37	1.42
3	A	1	GW6	C13-C8	-2.64	1.48	1.52
3	B	2	GW6	C13-C8	-2.28	1.49	1.52
3	A	1	GW6	C13-C12	-2.24	1.47	1.50
3	B	2	GW6	F1-C7	-2.21	1.36	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	1	GW6	F1-C7	-2.17	1.36	1.40
3	B	2	GW6	O6-C26	2.15	1.22	1.20
3	A	1	GW6	O6-C26	2.10	1.22	1.20

All (29) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	1	GW6	C12-C11-C10	-4.84	117.35	121.47
3	B	2	GW6	C12-C11-C10	-4.75	117.42	121.47
3	B	2	GW6	C20-C18-C4	-4.35	95.73	100.24
3	B	2	GW6	C13-C12-C11	3.21	126.71	124.38
3	A	1	GW6	C11-C10-C9	2.96	120.15	117.13
3	B	2	GW6	C18-C4-C5	2.95	116.05	113.73
3	B	2	GW6	C1-C2-C3	-2.93	108.81	113.53
3	A	1	GW6	C20-C18-C4	-2.87	97.26	100.24
3	A	1	GW6	C18-C20-C2	-2.81	102.43	104.47
3	B	2	GW6	O3-C21-C22	-2.75	107.37	111.12
3	A	1	GW6	C13-C12-C11	2.74	126.37	124.38
3	B	2	GW6	C11-C10-C9	2.72	119.91	117.13
3	B	2	GW6	F2-C15-C13	2.71	106.49	104.19
3	A	1	GW6	C7-C8-C9	-2.47	118.68	122.37
3	A	1	GW6	F2-C15-C16	2.43	104.83	102.72
3	A	1	GW6	O2-C16-C15	2.42	112.66	109.08
3	B	2	GW6	C7-C8-C9	-2.34	118.87	122.37
3	B	2	GW6	C6-C5-C4	-2.33	107.97	111.16
3	A	1	GW6	C13-C15-C16	-2.29	113.84	115.52
3	B	2	GW6	C18-C20-C2	-2.26	102.83	104.47
3	A	1	GW6	C8-C9-C10	-2.23	118.70	122.27
3	A	1	GW6	F2-C15-C13	2.22	106.07	104.19
3	B	2	GW6	C3-C4-C5	-2.19	117.03	119.07
3	B	2	GW6	C2-C3-C4	-2.10	102.14	104.55
3	B	2	GW6	C13-C15-C5	-2.08	109.41	112.12
3	B	2	GW6	C15-C5-C4	2.07	110.86	109.26
3	B	2	GW6	C8-C9-C10	-2.03	119.02	122.27
3	B	2	GW6	C2-C20-C26	-2.01	110.64	116.82
3	B	2	GW6	F1-C7-C8	2.01	112.03	109.66

There are no chirality outliers.

All (7) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	B	2	GW6	C18-C20-C26-O6

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Mol	Chain	Res	Type	Atoms
3	A	1	GW6	C2-C20-C26-O6
3	B	2	GW6	C2-C20-C26-O6
3	A	1	GW6	C26-C20-O3-C21
3	A	1	GW6	C18-C20-C26-O6
3	B	2	GW6	O3-C20-C26-O6
3	A	1	GW6	O3-C20-C26-O6

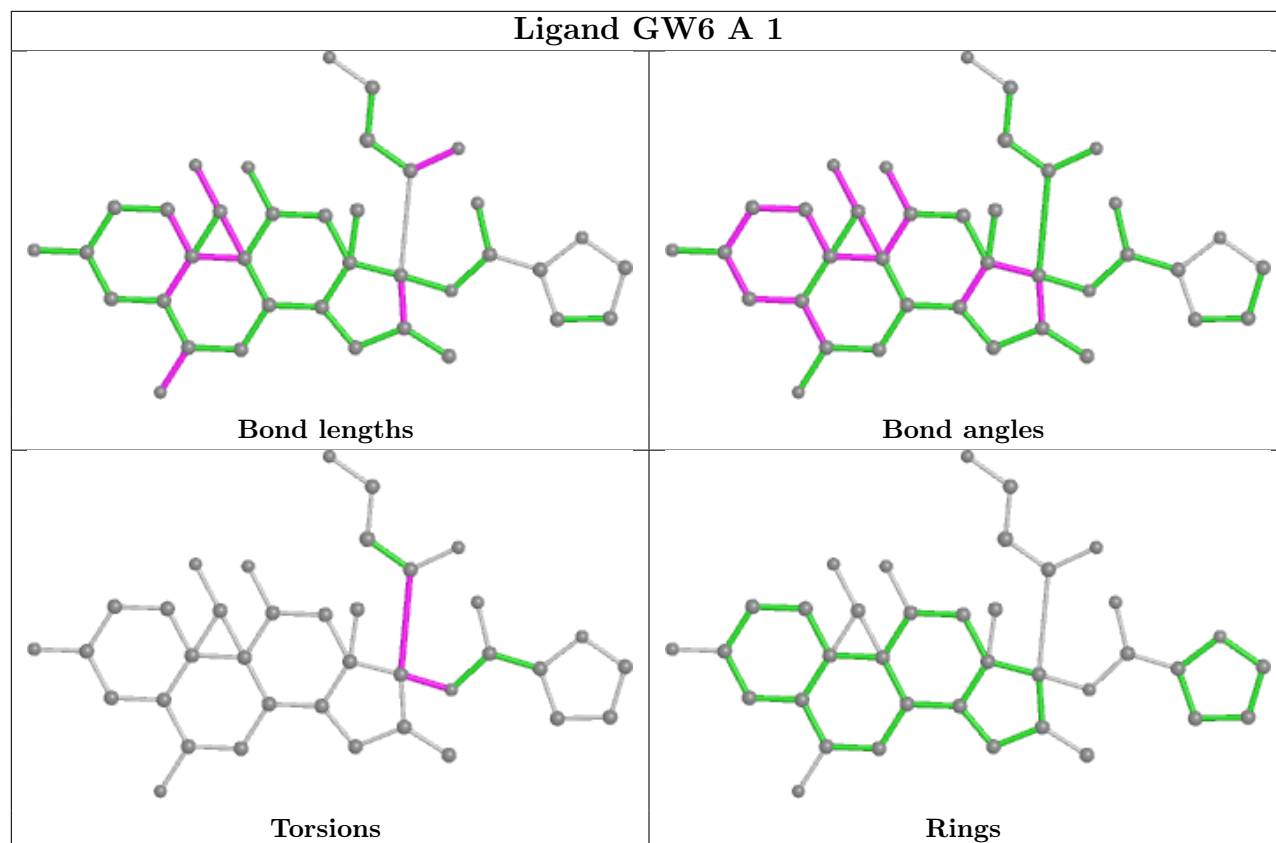
There are no ring outliers.

2 monomers are involved in 4 short contacts:

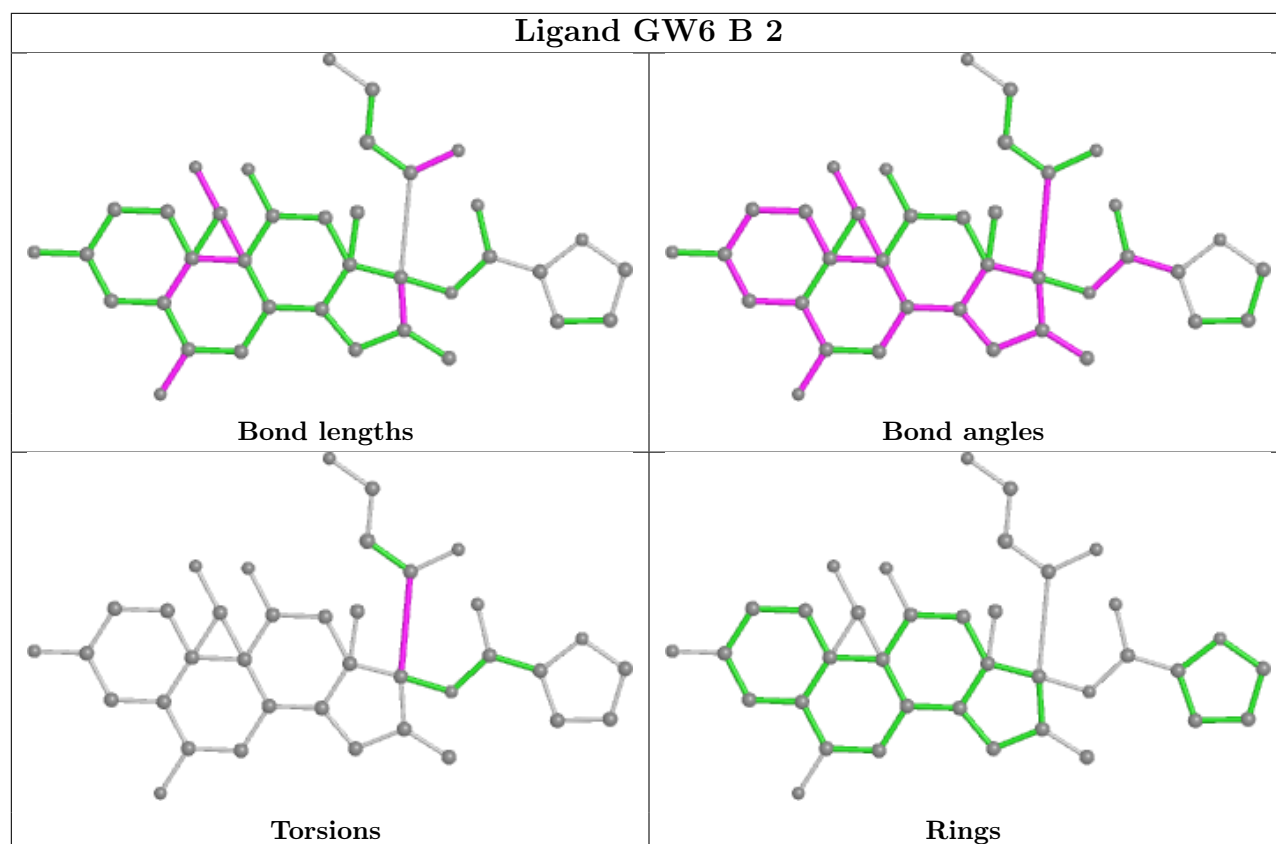
Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	1	GW6	2	0
3	B	2	GW6	2	0

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.

## Ligand GW6 A 1



## Ligand GW6 B 2



## 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

### 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, 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	243/259 (93%)	1.04	42 (17%)  	69, 75, 85, 92	0
1	B	241/259 (93%)	1.08	43 (17%)  	68, 74, 82, 91	0
2	C	9/12 (75%)	0.68	0  	58, 59, 67, 71	0
2	H	9/12 (75%)	0.71	1 (11%)  	68, 70, 76, 79	0
All	All	502/542 (92%)	1.05	86 (17%)  	58, 74, 84, 92	0

All (86) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	551	SER	6.2
1	A	526	PRO	6.1
1	A	710	GLN	5.2
1	B	549	ASP	4.6
1	B	746	SER	4.5
1	A	549	ASP	4.4
1	A	678	ASP	4.3
1	A	703	LYS	4.3
1	A	759	ASN	4.3
1	B	744	THR	4.0
1	A	552	VAL	3.8
1	B	678	ASP	3.7
1	A	557	TRP	3.7
1	A	550	SER	3.6
1	B	680	LEU	3.5
1	A	632	GLN	3.5
1	B	768	ASN	3.4
1	A	679	GLY	3.3
1	B	745	MET	3.3
2	H	742	ASN	3.2
1	B	758	THR	3.2

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Mol	Chain	Res	Type	RSRZ
1	B	704	ARG	3.2
1	B	622	CYS	3.2
1	A	613	TYR	3.1
1	B	556	THR	3.1
1	B	530	PRO	3.1
1	B	599	SER	3.0
1	B	583	GLY	3.0
1	A	639	MET	3.0
1	A	704	ARG	3.0
1	B	634	MET	2.9
1	B	538	VAL	2.9
1	A	677	LYS	2.9
1	B	531	THR	2.9
1	A	548	TYR	2.9
1	B	632	GLN	2.8
1	A	625	PRO	2.8
1	B	545	TYR	2.8
1	B	528	LEU	2.8
1	A	654	HIS	2.8
1	B	764	TYR	2.8
1	B	603	LEU	2.8
1	B	626	ASP	2.8
1	A	528	LEU	2.8
1	A	744	THR	2.8
1	B	654	HIS	2.7
1	A	702	VAL	2.7
1	B	769	ILE	2.6
1	B	650	SER	2.6
1	A	657	GLN	2.6
1	A	776	GLN	2.6
1	B	747	ILE	2.6
1	A	533	VAL	2.6
1	B	600	TRP	2.6
1	A	746	SER	2.5
1	B	669	LEU	2.5
1	B	681	LYS	2.5
1	B	776	GLN	2.5
1	A	559	ILE	2.5
1	A	619	ASN	2.5
1	A	545	TYR	2.4
1	B	640	TYR	2.4
1	A	527	GLN	2.4

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Mol	Chain	Res	Type	RSRZ
1	A	586	ASN	2.4
1	A	638	GLY	2.4
1	A	762	PRO	2.4
1	B	588	HIS	2.3
1	B	679	GLY	2.3
1	B	661	GLU	2.3
1	A	765	SER	2.3
1	A	672	LEU	2.2
1	B	657	GLN	2.2
1	B	551	SER	2.2
1	B	537	GLU	2.2
1	B	742	ASP	2.2
1	A	637	PRO	2.2
1	A	530	PRO	2.2
1	A	534	SER	2.1
1	A	531	THR	2.1
1	B	759	ASN	2.1
1	B	534	SER	2.1
1	A	547	GLY	2.1
1	B	598	TYR	2.1
1	A	676	PRO	2.1
1	A	727	GLU	2.0
1	B	694	ILE	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](#)

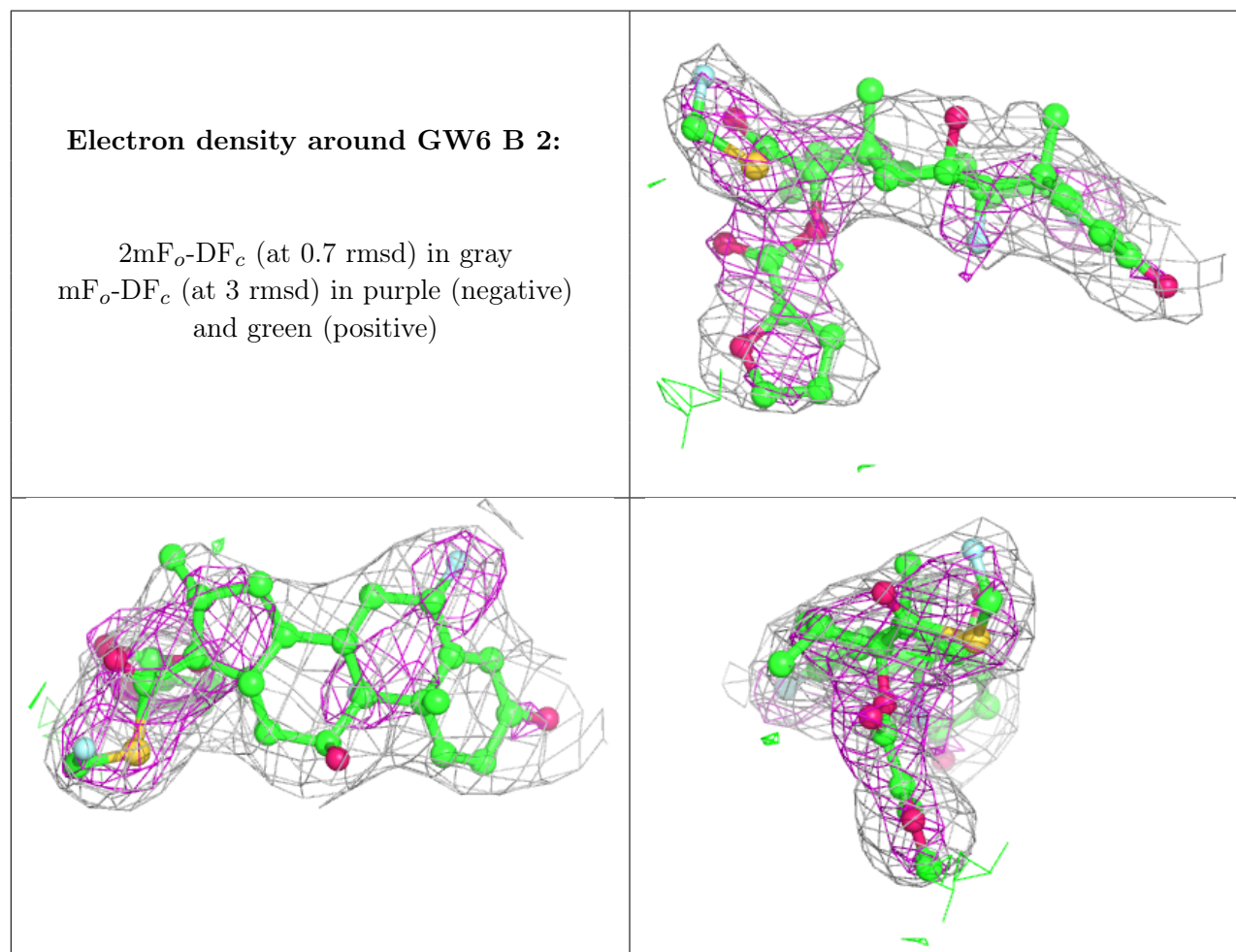
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95<sup>th</sup> percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

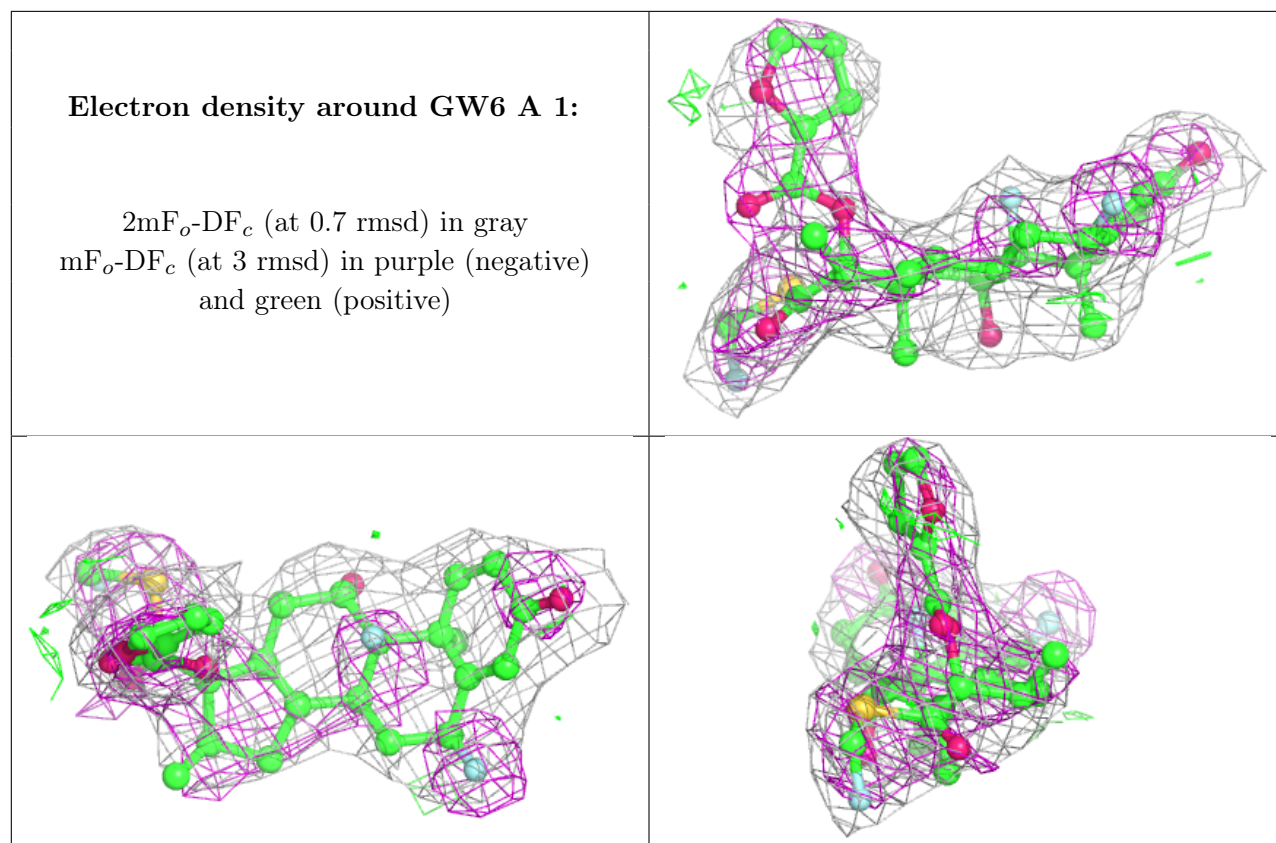
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
3	GW6	B	2	37/37	0.88	0.24	67,73,83,84	0
3	GW6	A	1	37/37	0.89	0.23	58,67,82,82	0

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.