



# wwPDB X-ray Structure Validation Summary Report ⓘ

Nov 30, 2022 – 03:17 pm GMT

PDB ID : 7YXO  
Title : Crystal structure of WT AncGR2-LBD bound to dexamethasone and SHP coregulator fragment  
Authors : Jimenez-Panizo, A.; Estebanez-Perpina, E.; Fuentes-Prior, P.  
Deposited on : 2022-02-16  
Resolution : 2.99 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 : 4.02b-467  
Mogul : 1.8.4, CSD as541be (2020)  
Xtriage (Phenix) : 1.13  
EDS : 2.31.3  
buster-report : 1.1.7 (2018)  
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)  
Refmac : 5.8.0267  
CCP4 : 7.1.010 (Gargrove)  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.31.3

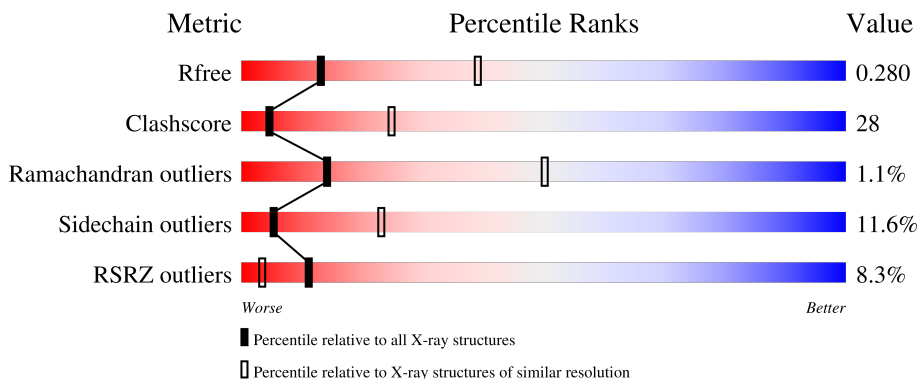
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 2.99 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	2092 (3.00-3.00)
Clashscore	141614	2416 (3.00-3.00)
Ramachandran outliers	138981	2333 (3.00-3.00)
Sidechain outliers	138945	2336 (3.00-3.00)
RSRZ outliers	127900	1990 (3.00-3.00)

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	248	
1	C	248	
1	E	248	
2	B	11	
2	D	11	

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Mol	Chain	Length	Quality of chain
2	F	11	 27% 36% 18% 18%

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
4	CPS	A	1002	-	-	X	-

## 2 Entry composition [i](#)

There are 6 unique types of molecules in this entry. The entry contains 6109 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 Ancestral Glucocorticoid Receptor2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	237	1922	1246	314	345	17	0	0	0
1	C	237	1924	1247	315	345	17	0	0	0
1	E	230	1860	1208	300	335	17	0	0	0

There are 3 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	529	PHE	-	expression tag	UNP A0A1X8XLE9
C	529	PHE	-	expression tag	UNP A0A1X8XLE9
E	529	PHE	-	expression tag	UNP A0A1X8XLE9

- Molecule 2 is a protein called SHP NR Box 1 Peptide.

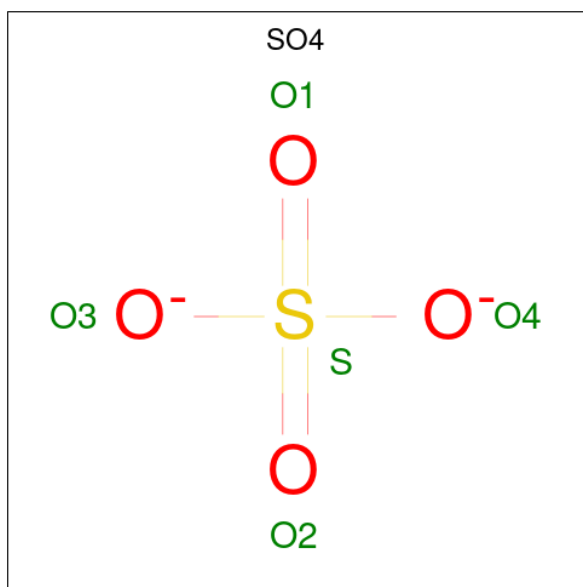
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
2	B	10	78	53	13	12	0	0	0
2	D	9	67	47	9	11	0	0	0
2	F	9	67	47	9	11	0	0	0

- Molecule 3 is DEXAMETHASONE (three-letter code: DEX) (formula: C<sub>22</sub>H<sub>29</sub>FO<sub>5</sub>) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
4	A	1	Total	C	N	O	S	0	0
			42	32	2	7	1		
4	C	1	Total	C	N	O	S	0	0
			42	32	2	7	1		

- Molecule 5 is SULFATE ION (three-letter code: SO4) (formula: O<sub>4</sub>S).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	A	1	Total	O	S	0	0
			5	4	1		
5	C	1	Total	O	S	0	0
			5	4	1		
5	C	1	Total	O	S	0	0
			5	4	1		

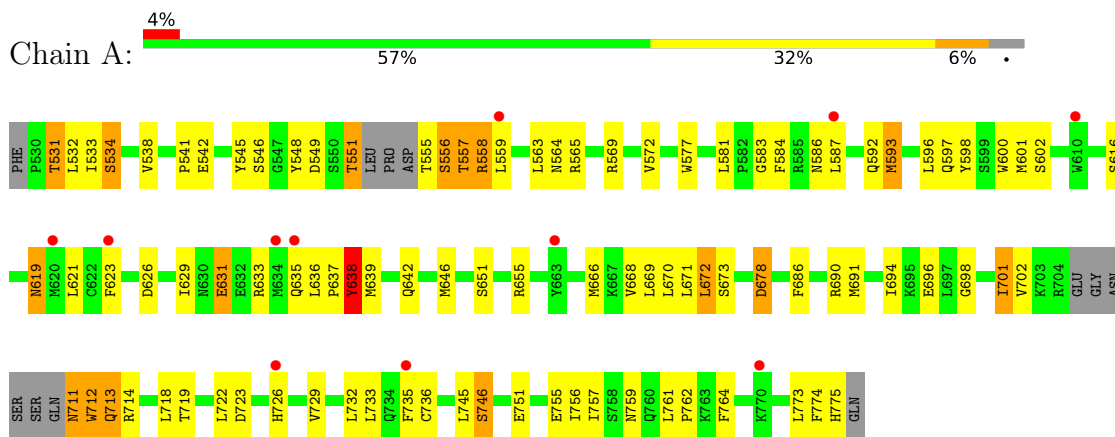
- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	5	Total	O	0	0
			5	5		
6	C	2	Total	O	0	0
			2	2		
6	E	1	Total	O	0	0
			1	1		

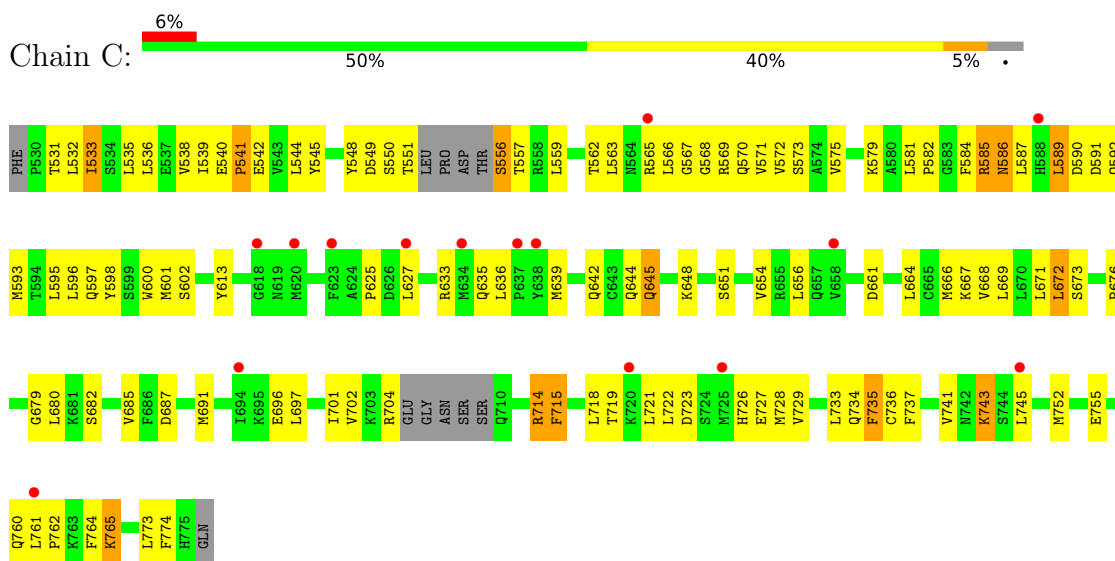
### 3 Residue-property plots [i](#)

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: Ancestral Glucocorticoid Receptor2

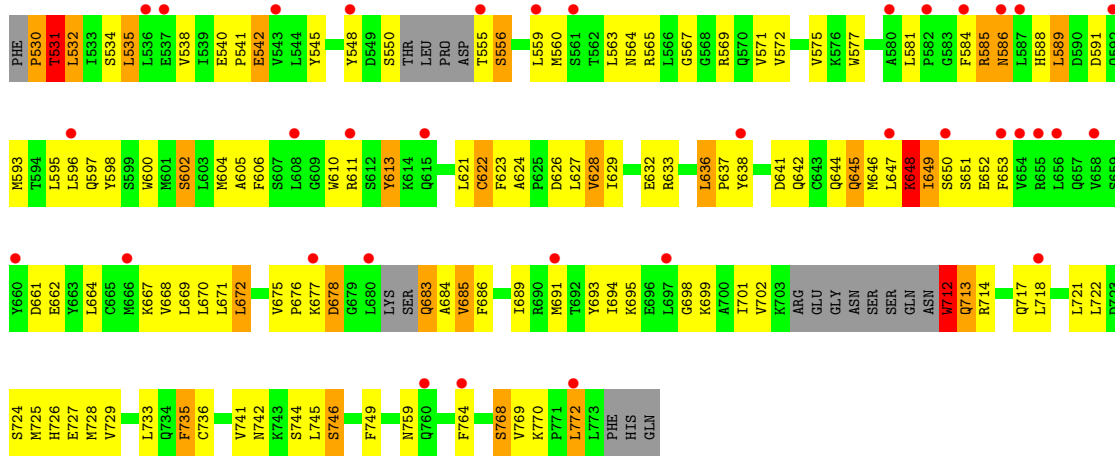


- Molecule 1: Ancestral Glucocorticoid Receptor2

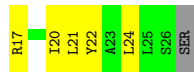


- Molecule 1: Ancestral Glucocorticoid Receptor2

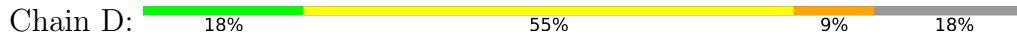




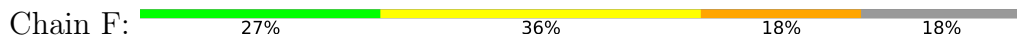
● Molecule 2: SHP NR Box 1 Peptide



● Molecule 2: SHP NR Box 1 Peptide



● Molecule 2: SHP NR Box 1 Peptide





## 4 Data and refinement statistics i

Property	Value	Source
Space group	I 41 2 2	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	180.20Å 180.20Å 169.18Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	90.10 – 2.99 90.10 – 3.18	Depositor EDS
% Data completeness (in resolution range)	83.5 (90.10-2.99) 83.5 (90.10-3.18)	Depositor EDS
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.68 (at 3.19Å)	Xtrriage
Refinement program	REFMAC 5.8.0267	Depositor
R, $R_{free}$	0.242 , 0.280 0.242 , 0.280	Depositor DCC
$R_{free}$ test set	1194 reflections (5.04%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	73.5	Xtrriage
Anisotropy	0.203	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	(Not available) , (Not available)	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.35$ , $\langle L^2 \rangle = 0.18$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
Reported twinning fraction	0.748 for H, K, L 0.124 for L, -K, H 0.128 for -H, L, K	Depositor
Outliers	0 of 23687 reflections	Xtrriage
$F_o, F_c$ correlation	0.87	EDS
Total number of atoms	6109	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	67.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.35% 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: CPS, SO4, DEX

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	0.38	0/1962	0.84	3/2644 (0.1%)
1	C	0.37	0/1964	0.81	1/2646 (0.0%)
1	E	0.39	0/1897	0.88	7/2556 (0.3%)
2	B	0.49	0/79	1.00	0/107
2	D	0.45	0/68	0.67	0/92
2	F	0.44	0/68	0.91	0/92
All	All	0.38	0/6038	0.84	11/8137 (0.1%)

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	2
1	E	0	3
All	All	0	5

There are no bond length outliers.

The worst 5 of 11 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	713	GLN	CB-CA-C	8.05	126.50	110.40
1	C	765	LYS	CB-CA-C	6.96	124.33	110.40
1	E	531	THR	N-CA-C	-6.92	92.32	111.00
1	E	648	LYS	CB-CA-C	5.91	122.22	110.40
1	A	619	ASN	CB-CA-C	5.87	122.13	110.40

There are no chirality outliers.

All (5) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	638	TYR	Peptide
1	A	711	ASN	Peptide
1	E	530	PRO	Peptide
1	E	531	THR	Mainchain
1	E	712	TRP	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.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1922	0	1957	101	1
1	C	1924	0	1958	102	0
1	E	1860	0	1896	133	2
2	B	78	0	87	4	0
2	D	67	0	75	11	0
2	F	67	0	75	9	0
3	A	28	0	29	5	0
3	C	28	0	29	1	0
3	E	28	0	29	1	0
4	A	42	0	58	21	0
4	C	42	0	58	8	0
5	A	5	0	0	0	0
5	C	10	0	0	0	0
6	A	5	0	0	0	0
6	C	2	0	0	0	0
6	E	1	0	0	0	0
All	All	6109	0	6251	348	2

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 28.

The worst 5 of 348 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:702:VAL:HG22	1:A:711:ASN:ND2	1.16	1.47
4:A:1002:CPS:H23	4:A:1002:CPS:C8	1.53	1.37
1:A:702:VAL:CG2	1:A:711:ASN:ND2	2.05	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:1002:CPS:H25	4:A:1002:CPS:H28B	1.27	1.16
4:C:1002:CPS:H10B	4:C:1002:CPS:H21A	1.18	1.15

All (2) 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)
1:A:764:PHE:O	1:E:744:SER:OG[11_554]	1.93	0.27
1:E:712:TRP:CZ3	1:E:712:TRP:CZ3[6_556]	2.13	0.07

## 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	231/248 (93%)	209 (90%)	21 (9%)	1 (0%)	34	72
1	C	231/248 (93%)	207 (90%)	22 (10%)	2 (1%)	17	55
1	E	222/248 (90%)	197 (89%)	20 (9%)	5 (2%)	6	30
2	B	8/11 (73%)	7 (88%)	1 (12%)	0	100	100
2	D	7/11 (64%)	7 (100%)	0	0	100	100
2	F	7/11 (64%)	4 (57%)	3 (43%)	0	100	100
All	All	706/777 (91%)	631 (89%)	67 (10%)	8 (1%)	14	50

5 of 8 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	E	685	VAL
1	E	713	GLN
1	E	532	LEU
1	C	541	PRO
1	E	531	THR

### 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	217/227 (96%)	197 (91%)	20 (9%)	9	34
1	C	217/227 (96%)	194 (89%)	23 (11%)	6	26
1	E	210/227 (92%)	183 (87%)	27 (13%)	4	19
2	B	8/9 (89%)	6 (75%)	2 (25%)	0	3
2	D	7/9 (78%)	4 (57%)	3 (43%)	0	0
2	F	7/9 (78%)	5 (71%)	2 (29%)	0	2
All	All	666/708 (94%)	589 (88%)	77 (12%)	5	23

5 of 77 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	E	613	TYR
1	E	735	PHE
1	E	628	VAL
1	E	648	LYS
2	F	21	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (5) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	711	ASN
1	A	742	ASN
1	C	642	GLN
1	C	734	GLN
1	E	642	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 monosaccharides in this entry.

## 5.6 Ligand geometry [i](#)

8 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	DEX	A	1001	-	31,31,31	0.50	0	52,53,53	1.32	6 (11%)
5	SO4	C	1004	-	4,4,4	0.31	0	6,6,6	0.07	0
5	SO4	C	1003	-	4,4,4	0.36	0	6,6,6	0.13	0
4	CPS	A	1002	-	45,45,45	0.47	0	69,70,70	1.43	8 (11%)
4	CPS	C	1002	-	45,45,45	0.47	0	69,70,70	0.78	0
3	DEX	C	1001	-	31,31,31	0.49	0	52,53,53	1.17	4 (7%)
3	DEX	E	1001	-	31,31,31	0.40	0	52,53,53	1.51	10 (19%)
5	SO4	A	1003	-	4,4,4	0.37	0	6,6,6	0.06	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
3	DEX	A	1001	-	-	2/8/84/84	0/4/4/4
4	CPS	A	1002	-	-	17/25/90/90	0/4/4/4
4	CPS	C	1002	-	-	12/25/90/90	0/4/4/4
3	DEX	C	1001	-	-	2/8/84/84	0/4/4/4
3	DEX	E	1001	-	-	2/8/84/84	0/4/4/4

There are no bond length outliers.

The worst 5 of 28 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	A	1002	CPS	C15-C16-C17	6.02	121.10	114.46
3	A	1001	DEX	C6-C5-C10	4.63	118.46	115.61
3	E	1001	DEX	C9-C8-C14	3.70	112.13	109.26
3	E	1001	DEX	C13-C14-C8	3.66	116.61	113.73
4	A	1002	CPS	C9-C5-C6	-3.56	96.50	100.09

There are no chirality outliers.

5 of 35 torsion outliers are listed below:

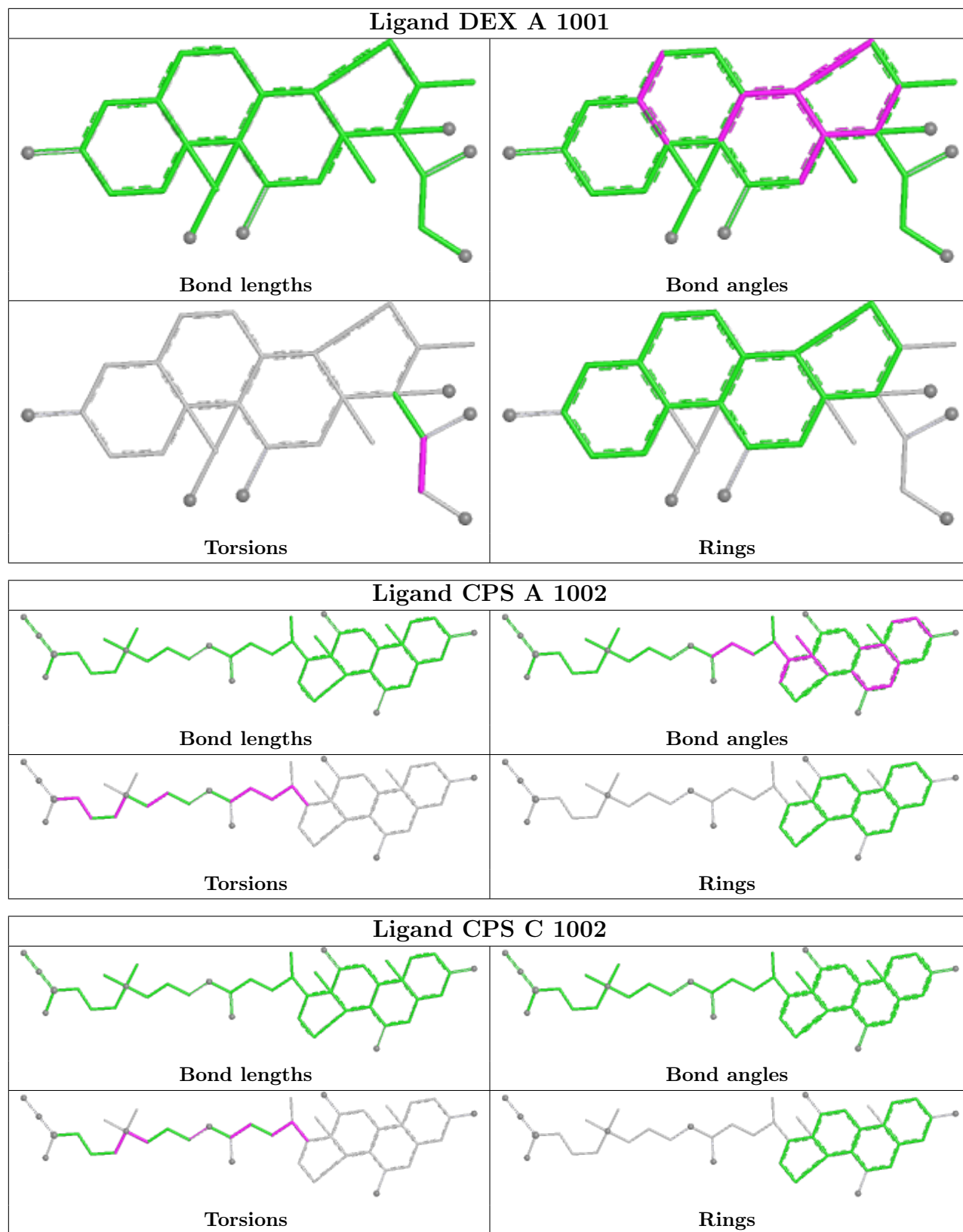
Mol	Chain	Res	Type	Atoms
3	A	1001	DEX	C17-C20-C21-O5
3	A	1001	DEX	O4-C20-C21-O5
3	C	1001	DEX	C17-C20-C21-O5
4	A	1002	CPS	C9-C20-C22-C23
4	A	1002	CPS	C25-C26-C27-N2

There are no ring outliers.

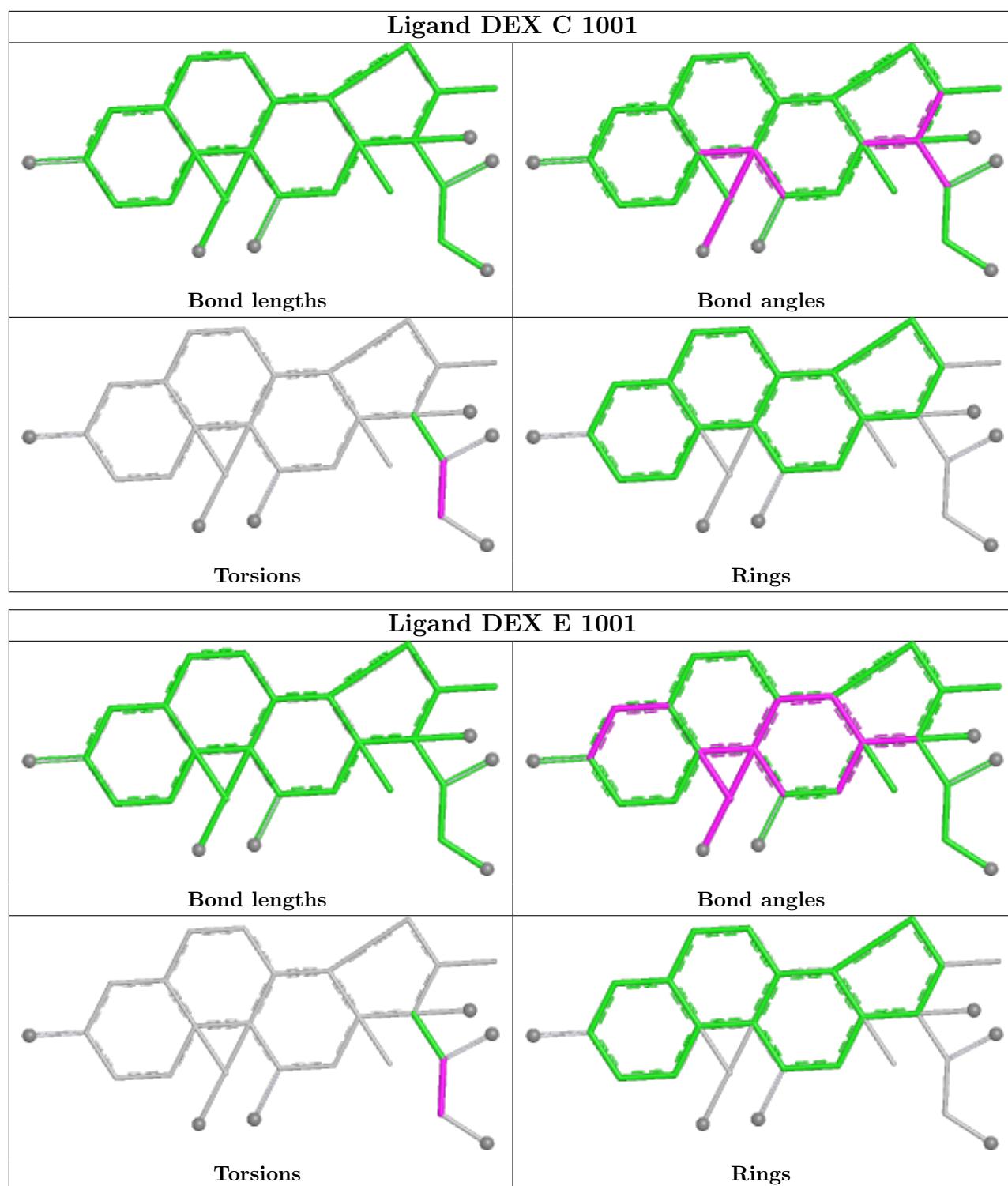
5 monomers are involved in 36 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	1001	DEX	5	0
4	A	1002	CPS	21	0
4	C	1002	CPS	8	0
3	C	1001	DEX	1	0
3	E	1001	DEX	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

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	237/248 (95%)	0.54	11 (4%) 32 12	0, 63, 91, 147	0
1	C	237/248 (95%)	0.69	15 (6%) 20 6	0, 63, 100, 152	0
1	E	230/248 (92%)	0.88	35 (15%) 2 1	31, 71, 105, 139	0
2	B	10/11 (90%)	0.68	0 100 100	35, 58, 65, 73	0
2	D	9/11 (81%)	0.88	0 100 100	58, 63, 80, 83	0
2	F	9/11 (81%)	0.46	0 100 100	35, 47, 61, 63	0
All	All	732/777 (94%)	0.70	61 (8%) 11 3	0, 66, 101, 152	0

The worst 5 of 61 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	634	MET	5.3
1	E	718	LEU	4.7
1	E	555	THR	4.4
1	A	635	GLN	4.4
1	E	548	TYR	4.3

### 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](#)

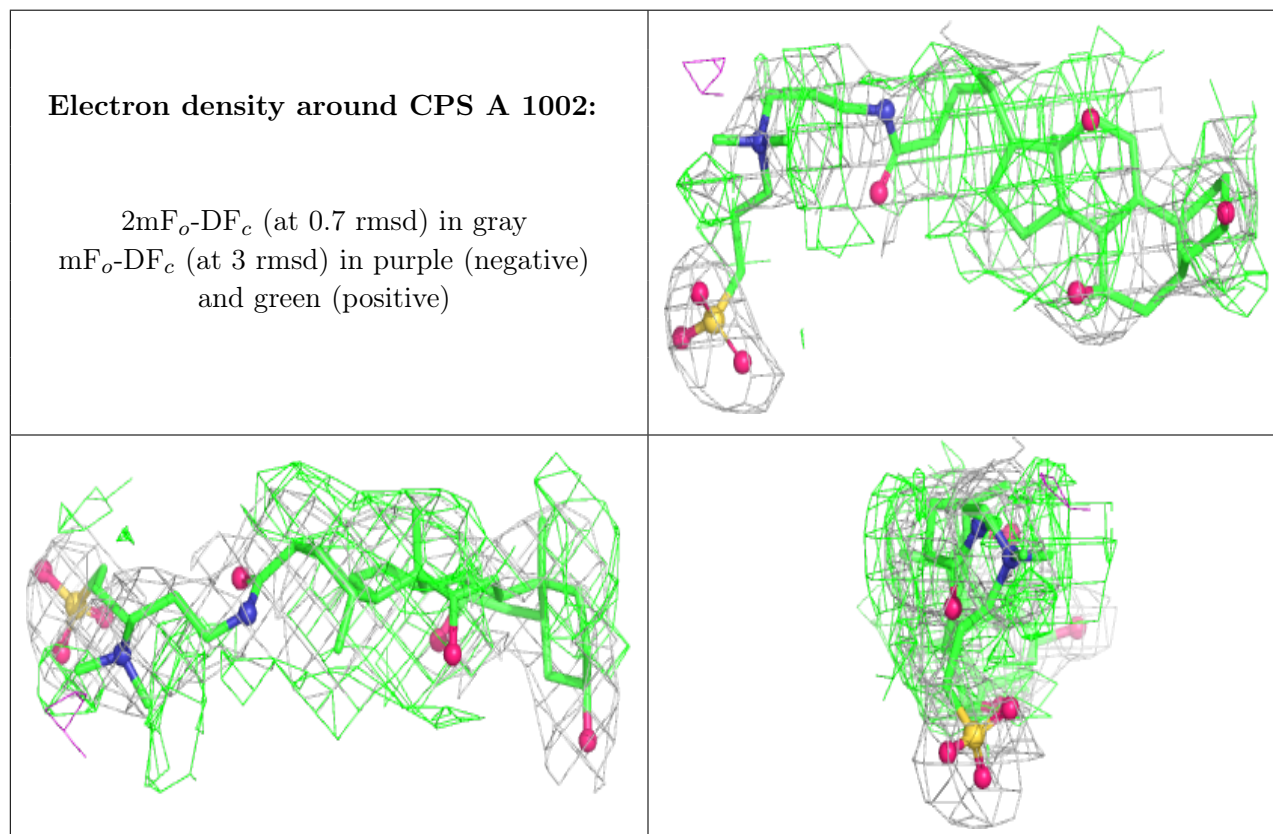
There are no monosaccharides in this entry.

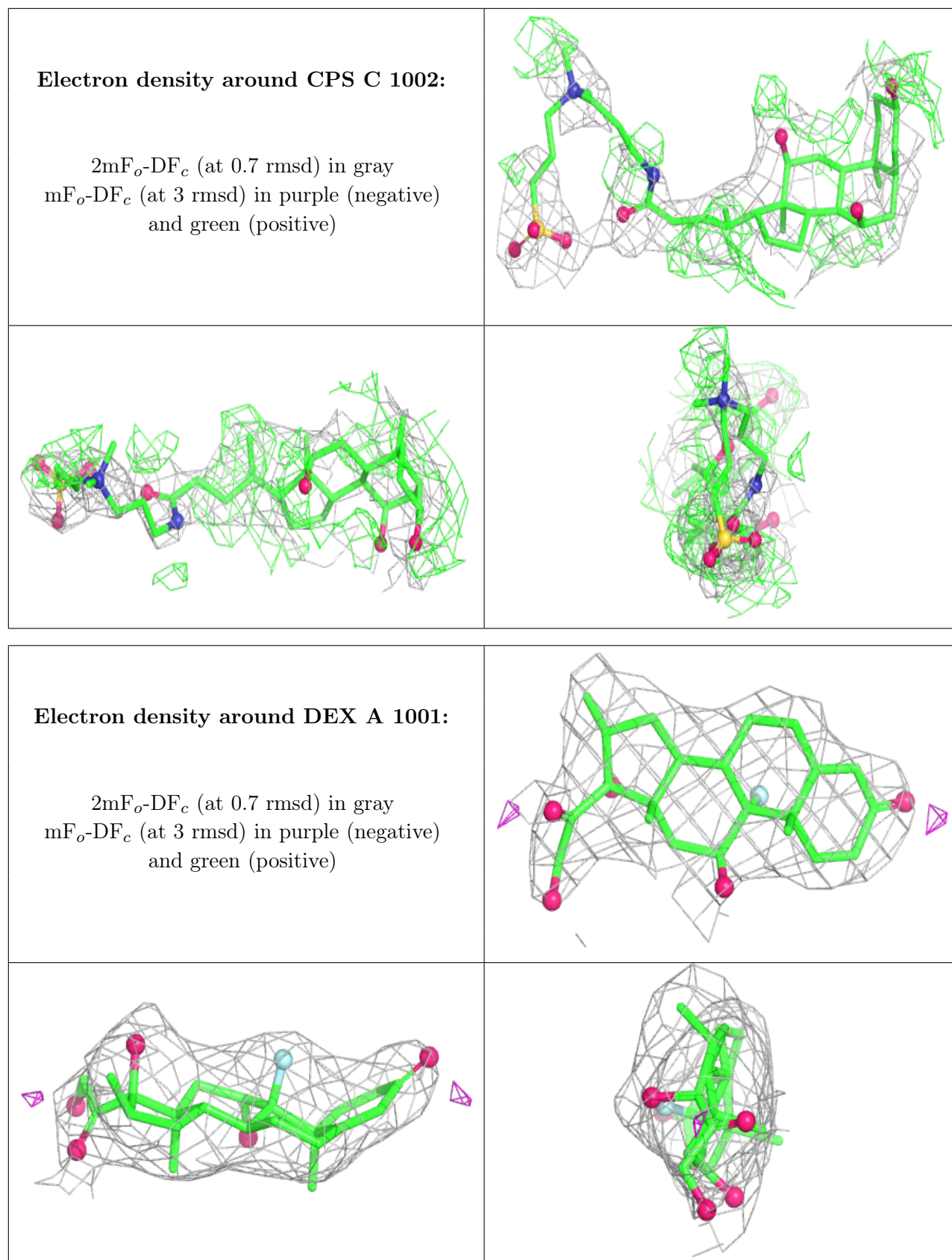
## 6.4 Ligands [i](#)

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
4	CPS	A	1002	42/42	0.86	0.29	16,20,54,62	42
5	SO4	C	1004	5/5	0.88	0.15	98,99,114,117	0
4	CPS	C	1002	42/42	0.90	0.19	41,55,68,70	42
5	SO4	A	1003	5/5	0.92	0.15	113,113,119,122	5
3	DEX	A	1001	28/28	0.92	0.28	37,42,54,59	0
3	DEX	E	1001	28/28	0.94	0.29	50,64,73,89	0
5	SO4	C	1003	5/5	0.97	0.18	60,67,77,85	0
3	DEX	C	1001	28/28	0.97	0.36	50,59,68,77	0

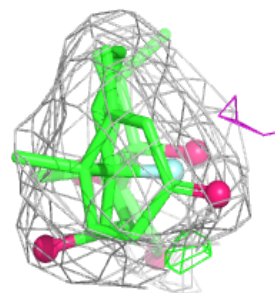
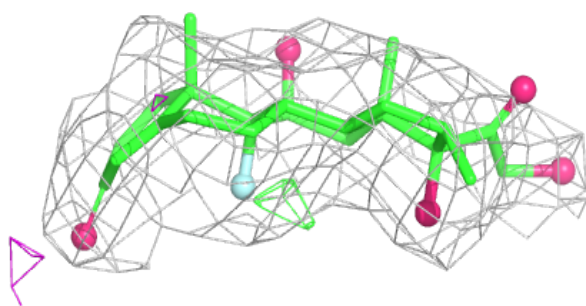
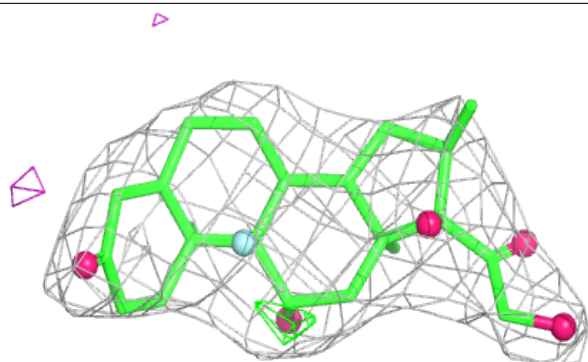
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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



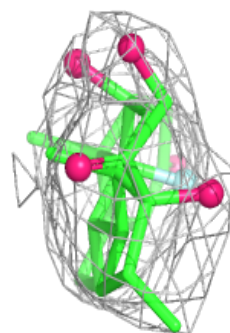
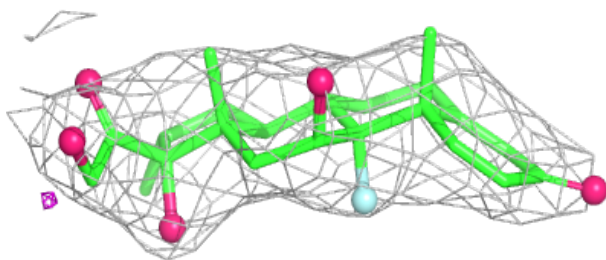
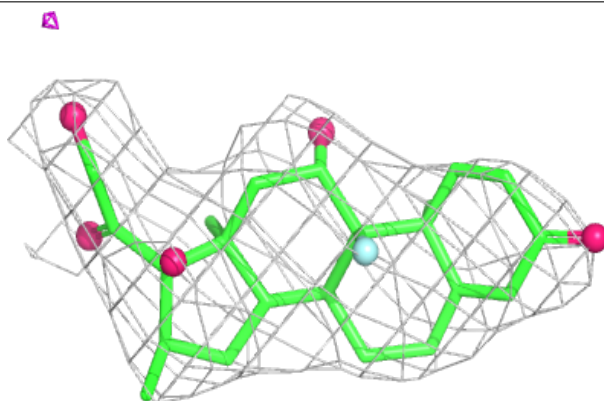


**Electron density around DEX E 1001:**

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

**Electron density around DEX C 1001:**

$2mF_o-DF_c$  (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.