



# Full wwPDB X-ray Structure Validation Report ⓘ

Aug 22, 2020 – 09:49 AM BST

PDB ID : 6PZR  
Title : Crystal structure of Danio rerio histone deacetylase 6 catalytic domain 2 complexed with Resminostat  
Authors : Osko, J.D.; Christianson, D.W.  
Deposited on : 2019-08-01  
Resolution : 2.30 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	:	2.13.1
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)	:	2.13.1

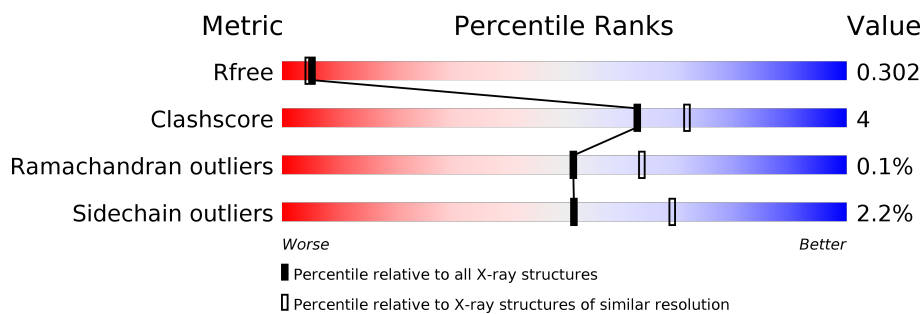
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*



The reported resolution of this entry is 2.30 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	5042 (2.30-2.30)
Clashscore	141614	5643 (2.30-2.30)
Ramachandran outliers	138981	5575 (2.30-2.30)
Sidechain outliers	138945	5575 (2.30-2.30)

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 on 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  $\leq 5\%$ .

Mol	Chain	Length	Quality of chain
1	A	358	
1	B	358	

## 2 Entry composition

There are 7 unique types of molecules in this entry. The entry contains 5757 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 Hdac6 protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	358	Total	C	N	O	S	0	0	0
			2753	1733	491	511	18			
1	B	357	Total	C	N	O	S	0	0	0
			2760	1737	492	513	18			

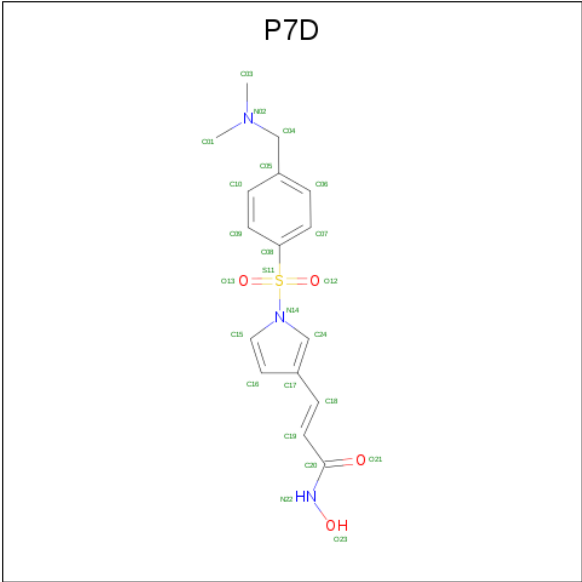
- Molecule 2 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	B	1	Total	Zn	0	0
			1	1		
2	A	1	Total	Zn	0	0
			1	1		

- Molecule 3 is POTASSIUM ION (three-letter code: K) (formula: K).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	B	2	Total	K	0	0
			2	2		
3	A	2	Total	K	0	0
			2	2		

- Molecule 4 is Resminostat (three-letter code: P7D) (formula: C<sub>16</sub>H<sub>19</sub>N<sub>3</sub>O<sub>4</sub>S).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
4	A	1	Total	C	N	O	S	0	0
			24	16	3	4	1		
4	B	1	Total	C	N	O	S	0	0
			24	16	3	4	1		

- Molecule 5 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: C<sub>2</sub>H<sub>6</sub>O<sub>2</sub>).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	A	1	Total	C	O	0	0
			4	2	2		
5	A	1	Total	C	O	0	0
			4	2	2		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	A	1	Total	C	O	0	0
			4	2	2		
5	B	1	Total	C	O	0	0
			4	2	2		
5	B	1	Total	C	O	0	0
			4	2	2		
5	B	1	Total	C	O	0	0
			4	2	2		

- Molecule 6 is IODIDE ION (three-letter code: IOD) (formula: I).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	B	3	Total	I	0	0
			3	3		
6	A	4	Total	I	0	0
			4	4		

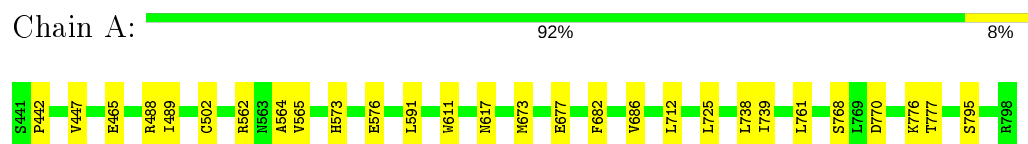
- Molecule 7 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	A	75	Total	O	0	0
			75	75		
7	B	82	Total	O	0	2
			84	84		

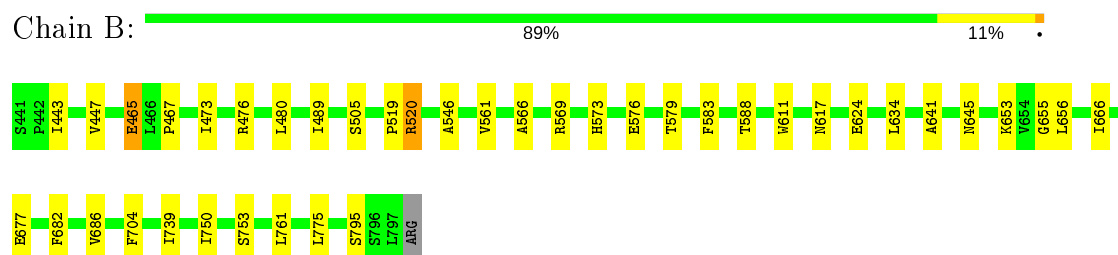
### 3 Residue-property plots [i](#)

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. 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. 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: Hdac6 protein



- Molecule 1: Hdac6 protein



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	75.88Å 97.36Å 97.64Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	68.94 – 2.30 68.94 – 2.30	Depositor EDS
% Data completeness (in resolution range)	94.0 (68.94-2.30) 98.6 (68.94-2.30)	Depositor EDS
$R_{merge}$	0.36	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.72 (at 2.29Å)	Xtriage
Refinement program	PHENIX	Depositor
R, $R_{free}$	(Not available) , (Not available) 0.249 , 0.302	Depositor DCC
$R_{free}$ test set	1667 reflections (5.15%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	24.7	Xtriage
Anisotropy	0.432	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.33 , 45.4	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.49$ , $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	0.000 for -h,l,k	Xtriage
$F_o, F_c$ correlation	0.93	EDS
Total number of atoms	5757	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	22.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 53.79 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 4.0080e-05. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

<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

### 5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: ZN, IOD, P7D, K, EDO

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	0/2823	0.57	0/3835
1	B	0.43	0/2831	0.60	0/3848
All	All	0.43	0/5654	0.59	0/7683

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

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	2753	0	2634	16	0
1	B	2760	0	2649	31	0
2	A	1	0	0	0	0
2	B	1	0	0	0	0
3	A	2	0	0	0	0
3	B	2	0	0	0	0
4	A	24	0	0	0	0
4	B	24	0	0	0	0
5	A	12	0	18	2	0
5	B	12	0	18	2	0
6	A	4	0	0	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	B	3	0	0	0	0
7	A	75	0	0	1	0
7	B	84	0	0	0	0
All	All	5757	0	5319	47	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 4.

All (47) 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:634:LEU:HD11	1:B:666:ILE:HD12	1.44	0.97
1:A:442:PRO:HB3	1:A:562:ARG:HH11	1.40	0.86
1:B:634:LEU:CD1	1:B:666:ILE:HB	2.05	0.86
1:B:576:GLU:OE2	1:B:617:ASN:ND2	2.20	0.74
1:B:655:GLY:H	5:B:805:EDO:H12	1.53	0.74
1:A:442:PRO:HB3	1:A:562:ARG:NH1	2.02	0.74
1:B:634:LEU:HD13	1:B:666:ILE:HB	1.68	0.74
1:B:465:GLU:OE1	1:B:569:ARG:NH2	2.26	0.68
1:A:488:ARG:HH12	5:A:806:EDO:H11	1.62	0.64
1:B:634:LEU:CD1	1:B:666:ILE:HD12	2.25	0.61
1:B:443:ILE:HG22	1:B:561:VAL:HG12	1.83	0.60
1:A:576:GLU:OE2	1:A:617:ASN:ND2	2.35	0.58
1:B:634:LEU:HD12	1:B:666:ILE:HB	1.81	0.58
1:B:465:GLU:OE1	1:B:569:ARG:NE	2.36	0.58
1:B:519:PRO:HD2	1:B:520:ARG:HH21	1.68	0.57
1:B:447:VAL:HG12	1:B:566:ALA:HA	1.88	0.56
1:B:576:GLU:HB2	1:B:579:THR:HG22	1.89	0.54
1:B:447:VAL:HG23	1:B:489:ILE:O	2.07	0.54
1:B:634:LEU:CD1	1:B:666:ILE:CB	2.82	0.54
1:A:488:ARG:NH1	5:A:806:EDO:H11	2.24	0.53
1:A:673:MET:SD	1:A:677:GLU:HG2	2.49	0.52
1:B:653:LYS:HB3	5:B:805:EDO:H11	1.92	0.51
1:B:739:ILE:HG13	1:B:761:LEU:HD11	1.93	0.51
1:B:476:ARG:CZ	1:B:480:LEU:HD21	2.40	0.51
1:A:565:VAL:HG23	1:A:739:ILE:HB	1.96	0.48
1:B:546:ALA:HA	1:B:588:THR:HG23	1.96	0.48
1:B:465:GLU:CD	1:B:465:GLU:O	2.52	0.47
1:A:712:LEU:HD22	6:A:808:IOD:I	2.85	0.47
1:B:465:GLU:OE1	1:B:465:GLU:O	2.32	0.47
1:B:465:GLU:CD	1:B:569:ARG:HH21	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:624:GLU:HG2	1:B:656:LEU:HG	1.98	0.46
1:B:704:PHE:CD1	1:B:753:SER:HB3	2.52	0.45
1:B:682:PHE:HA	1:B:686:VAL:HB	1.98	0.45
1:A:739:ILE:HG13	1:A:761:LEU:HD11	1.99	0.44
1:B:465:GLU:OE1	1:B:569:ARG:CZ	2.66	0.43
1:A:564:ALA:HB3	1:A:738:LEU:HD13	2.00	0.42
1:A:777:THR:HG23	7:A:935:HOH:O	2.19	0.42
1:A:682:PHE:CE1	1:A:725:LEU:HD22	2.55	0.42
1:B:467:PRO:HA	1:B:569:ARG:CZ	2.51	0.41
1:A:447:VAL:HG23	1:A:489:ILE:O	2.20	0.41
1:B:476:ARG:O	1:B:480:LEU:HD23	2.20	0.41
1:B:473:ILE:HD11	1:B:750:ILE:HD12	2.01	0.41
1:B:641:ALA:O	1:B:645:ASN:ND2	2.54	0.41
1:A:682:PHE:CD1	1:A:725:LEU:HD22	2.56	0.41
1:B:677:GLU:HG3	1:B:775:LEU:HD23	2.03	0.41
1:A:682:PHE:HA	1:A:686:VAL:HB	2.02	0.40
1:A:502:CYS:SG	1:A:591:LEU:HD23	2.61	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	356/358 (99%)	343 (96%)	12 (3%)	1 (0%)	41	50
1	B	355/358 (99%)	342 (96%)	13 (4%)	0	100	100
All	All	711/716 (99%)	685 (96%)	25 (4%)	1 (0%)	51	64

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	770	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	290/302 (96%)	284 (98%)	6 (2%)	53	70
1	B	294/302 (97%)	287 (98%)	7 (2%)	49	66
All	All	584/604 (97%)	571 (98%)	13 (2%)	52	69

All (13) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	465	GLU
1	A	573	HIS
1	A	611	TRP
1	A	768	SER
1	A	776	LYS
1	A	795	SER
1	B	465	GLU
1	B	505	SER
1	B	520	ARG
1	B	573	HIS
1	B	583	PHE
1	B	611	TRP
1	B	795	SER

Some 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 ⓘ

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](#)

Of 21 ligands modelled in this entry, 13 are monoatomic - leaving 8 for Mogul analysis.

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	$\# Z  > 2$
5	EDO	A	806	-	3,3,3	0.37	0	2,2,2	0.49	0
5	EDO	A	807	-	3,3,3	0.51	0	2,2,2	0.22	0
4	P7D	A	804	2	24,25,25	2.24	7 (29%)	27,35,35	3.10	11 (40%)
5	EDO	B	807	-	3,3,3	0.44	0	2,2,2	0.44	0
5	EDO	B	805	-	3,3,3	0.35	0	2,2,2	0.52	0
5	EDO	B	806	-	3,3,3	0.55	0	2,2,2	0.16	0
4	P7D	B	804	2	24,25,25	2.20	10 (41%)	27,35,35	2.97	9 (33%)
5	EDO	A	805	-	3,3,3	0.47	0	2,2,2	0.37	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
5	EDO	A	806	-	-	1/1/1/1	-
5	EDO	A	807	-	-	1/1/1/1	-
4	P7D	A	804	2	-	2/17/23/23	0/2/2/2
5	EDO	B	807	-	-	0/1/1/1	-
5	EDO	B	805	-	-	1/1/1/1	-
5	EDO	B	806	-	-	0/1/1/1	-
4	P7D	B	804	2	-	4/17/23/23	0/2/2/2
5	EDO	A	805	-	-	1/1/1/1	-

All (17) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	B	804	P7D	C20-N22	5.20	1.42	1.33
4	A	804	P7D	C20-N22	5.06	1.42	1.33
4	A	804	P7D	C24-N14	5.05	1.48	1.38
4	B	804	P7D	C24-N14	4.79	1.48	1.38
4	A	804	P7D	C15-N14	4.22	1.47	1.38
4	B	804	P7D	C15-N14	3.71	1.46	1.38
4	A	804	P7D	C16-C17	2.77	1.46	1.42
4	B	804	P7D	C04-N02	2.56	1.53	1.46
4	B	804	P7D	C19-C20	-2.30	1.43	1.48
4	B	804	P7D	C16-C17	2.29	1.45	1.42
4	B	804	P7D	C03-N02	2.27	1.53	1.46
4	A	804	P7D	O13-S11	-2.20	1.41	1.43
4	B	804	P7D	O12-S11	-2.12	1.41	1.43
4	A	804	P7D	C04-N02	2.12	1.52	1.46
4	B	804	P7D	C09-C10	2.10	1.42	1.38
4	B	804	P7D	C09-C08	2.05	1.42	1.38
4	A	804	P7D	O12-S11	-2.05	1.41	1.43

All (20) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	A	804	P7D	O21-C20-N22	-7.24	109.50	122.89
4	B	804	P7D	O21-C20-N22	-6.99	109.95	122.89
4	B	804	P7D	C19-C20-N22	6.62	127.55	114.38
4	A	804	P7D	C19-C20-N22	6.21	126.74	114.38
4	A	804	P7D	C09-C08-C07	-6.17	111.84	120.44
4	B	804	P7D	C09-C08-C07	-6.10	111.93	120.44
4	A	804	P7D	C10-C09-C08	5.36	125.00	119.45
4	B	804	P7D	C10-C09-C08	5.29	124.93	119.45
4	A	804	P7D	C06-C07-C08	4.76	124.38	119.45
4	B	804	P7D	C06-C07-C08	4.70	124.31	119.45
4	B	804	P7D	C09-C08-S11	4.44	124.69	119.77
4	A	804	P7D	C08-S11-N14	4.43	109.97	104.52
4	A	804	P7D	C09-C08-S11	4.41	124.66	119.77
4	A	804	P7D	C07-C08-S11	3.36	123.50	119.77
4	B	804	P7D	C07-C08-S11	3.25	123.37	119.77
4	B	804	P7D	C06-C05-C10	-2.27	114.60	118.17
4	A	804	P7D	C06-C05-C10	-2.25	114.63	118.17
4	B	804	P7D	C15-C16-C17	2.21	108.70	105.53
4	A	804	P7D	C15-C16-C17	2.20	108.68	105.53
4	A	804	P7D	C05-C04-N02	2.05	116.68	113.08

There are no chirality outliers.

All (10) torsion outliers are listed below:

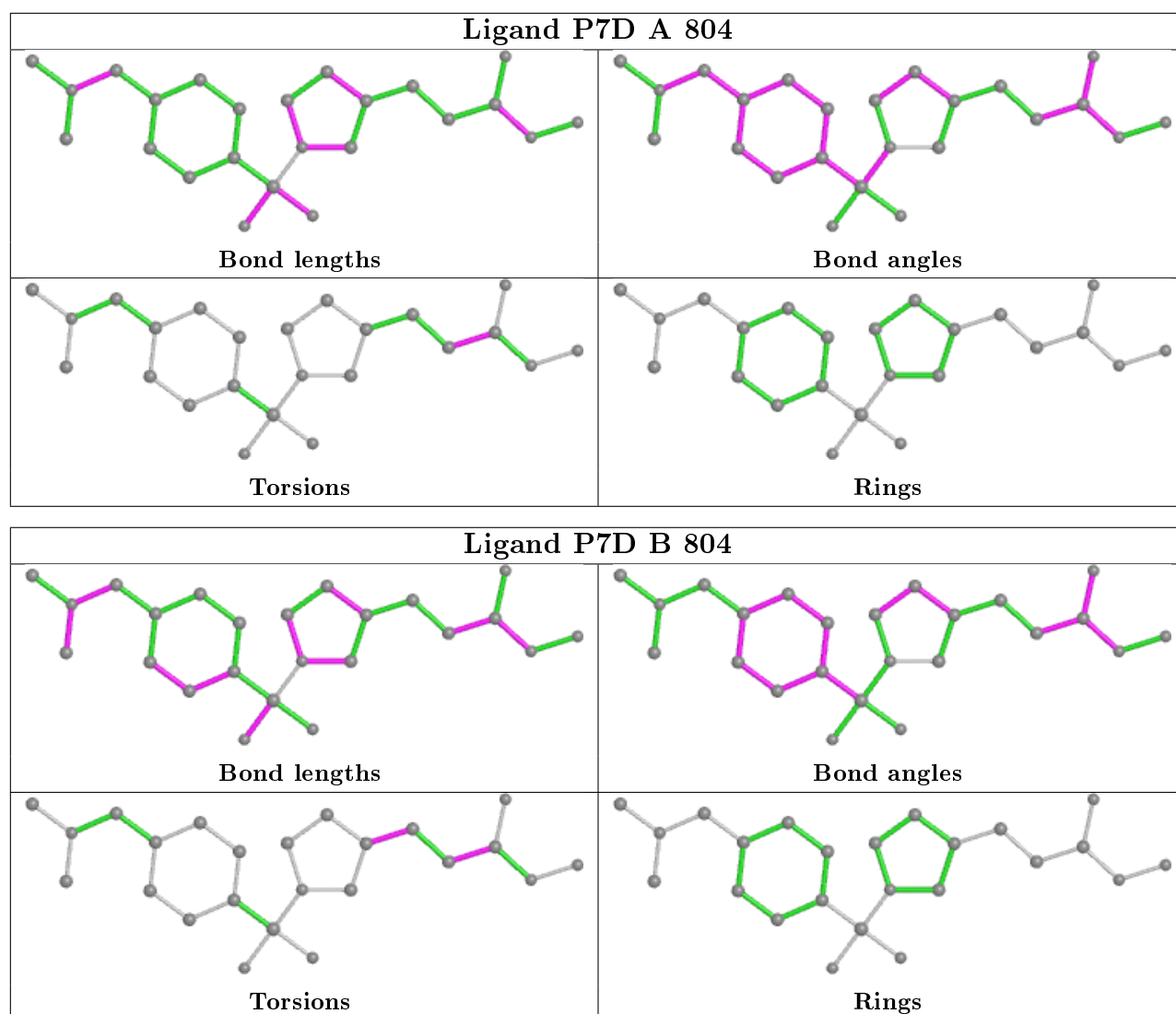
Mol	Chain	Res	Type	Atoms
4	A	804	P7D	C18-C19-C20-N22
4	B	804	P7D	C24-C17-C18-C19
4	B	804	P7D	C16-C17-C18-C19
4	B	804	P7D	C18-C19-C20-N22
4	A	804	P7D	C18-C19-C20-O21
5	A	806	EDO	O1-C1-C2-O2
5	A	807	EDO	O1-C1-C2-O2
5	A	805	EDO	O1-C1-C2-O2
4	B	804	P7D	C18-C19-C20-O21
5	B	805	EDO	O1-C1-C2-O2

There are no ring outliers.

2 monomers are involved in 4 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	A	806	EDO	2	0
5	B	805	EDO	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 ⓘ

### 6.1 Protein, DNA and RNA chains ⓘ

Unable to reproduce the depositors R factor - this section is therefore empty.

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

Unable to reproduce the depositors R factor - this section is therefore empty.

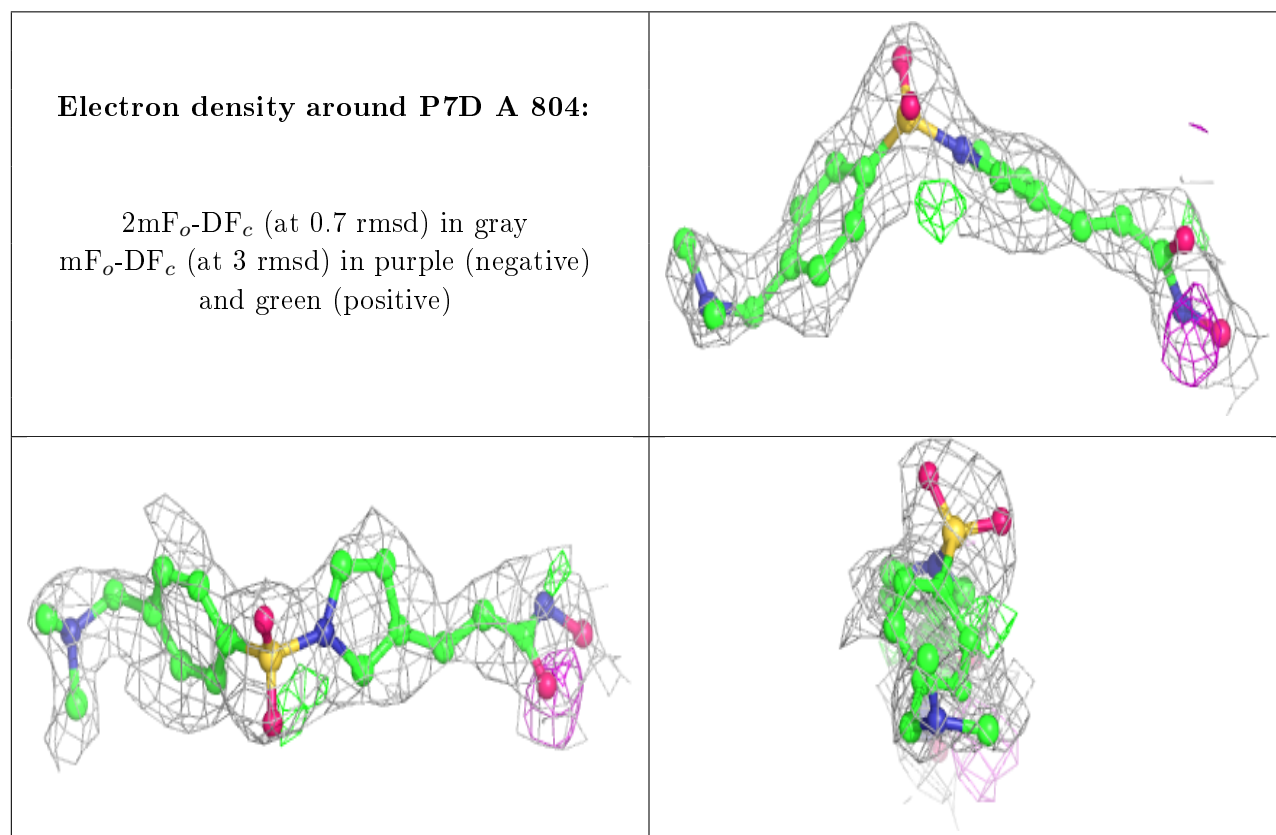
### 6.3 Carbohydrates ⓘ

Unable to reproduce the depositors R factor - this section is therefore empty.

### 6.4 Ligands ⓘ

Unable to reproduce the depositors R factor - this section is therefore empty.

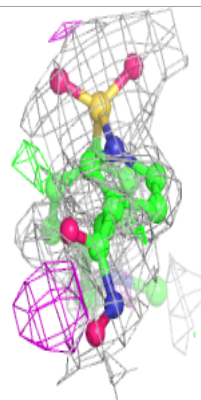
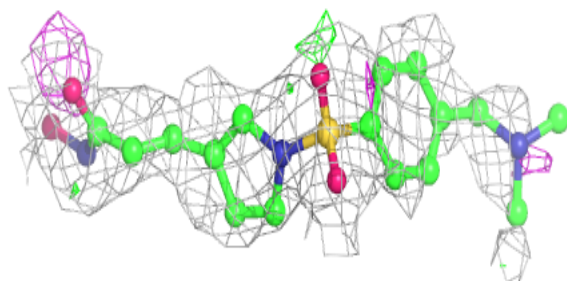
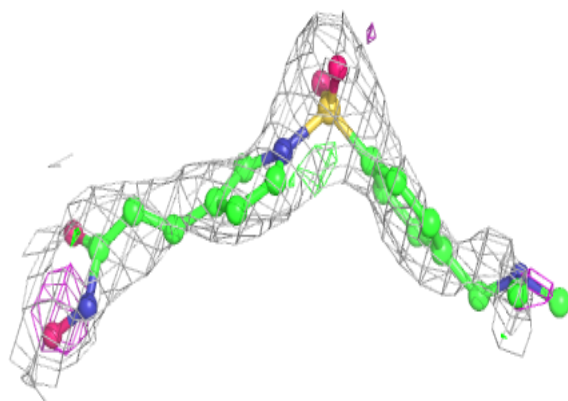
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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





**Electron density around P7D B 804:**

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



## 6.5 Other polymers [i](#)

Unable to reproduce the depositors R factor - this section is therefore empty.