

wwPDB X-ray Structure Validation Summary Report (i)

Dec 17, 2023 – 03:26 am GMT

PDB ID : 4CLZ

Title : Crystal structure of human soluble Adenylyl Cyclase with Inhibitor 4, 4'-Diis

othiocyano-2,2'-stilbenedisulfonic acid

Authors: Kleinboelting, S.; Weyand, M.; Steegborn, C.

Deposited on : 2014-01-15

Resolution : 1.90 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
A user guide is available at

https://www.wwpdb.org/validation/2017/XrayValidationReportHelp with specific help available everywhere you see the (i) symbol.

The types of validation reports are described at http://www.wwpdb.org/validation/2017/FAQs#types.

The following versions of software and data (see references (1)) were used in the production of this report:

MolProbity: 4.02b-467

Mogul : 1.8.4, CSD as541be (2020)

Xtriage (Phenix) : 1.13

EDS: 2.36

buster-report : 1.1.7 (2018)

Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)

 $Refmac \quad : \quad 5.8.0158$

CCP4 : 7.0.044 (Gargrove)

Ideal geometry (proteins) : Engh & Huber (2001) Ideal geometry (DNA, RNA) : Parkinson et al. (1996)

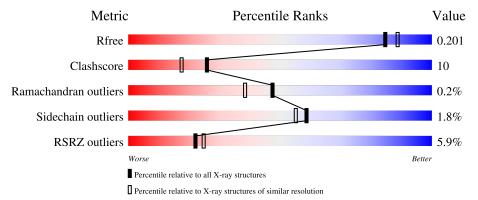
Validation Pipeline (wwPDB-VP) : 2.36

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure: X- $RAY\ DIFFRACTION$

The reported resolution of this entry is 1.90 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.



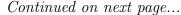
Metric	Whole archive $(\# \mathrm{Entries})$	$egin{aligned} ext{Similar resolution} \ (\# ext{Entries, resolution range}(ext{Å})) \end{aligned}$		
R_{free}	130704	6207 (1.90-1.90)		
Clashscore	141614	6847 (1.90-1.90)		
Ramachandran outliers	138981	6760 (1.90-1.90)		
Sidechain outliers	138945	6760 (1.90-1.90)		
RSRZ outliers	127900	6082 (1.90-1.90)		

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	• v				
			6%					
1	A	475	82%	14%	•			

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
2	ACT	A	1470	-	-	X	-





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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
2	ACT	A	1471	-	-	X	-
3	EDO	A	1475	-	-	X	-
4	PEG	A	1476	-	-	X	-



2 Entry composition (i)

There are 7 unique types of molecules in this entry. The entry contains 4116 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.

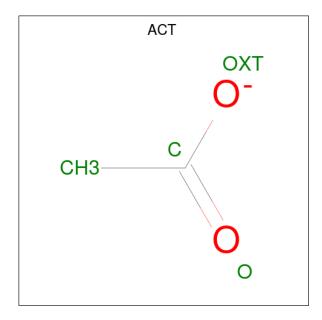
• Molecule 1 is a protein called ADENYLATE CYCLASE TYPE 10.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1	٨	458	Total	С	N	О	S	0	15	0
1	A	400	3692	2400	590	666	36	U	10	0

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	470	HIS	-	expression tag	UNP Q96PN6
A	471	HIS	-	expression tag	UNP Q96PN6
A	472	HIS	-	expression tag	UNP Q96PN6
A	473	HIS	-	expression tag	UNP Q96PN6
A	474	HIS	-	expression tag	UNP Q96PN6
A	475	HIS	-	expression tag	UNP Q96PN6

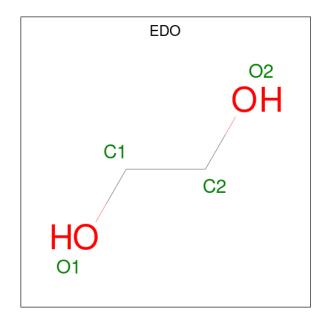
• Molecule 2 is ACETATE ION (three-letter code: ACT) (formula: C₂H₃O₂).





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

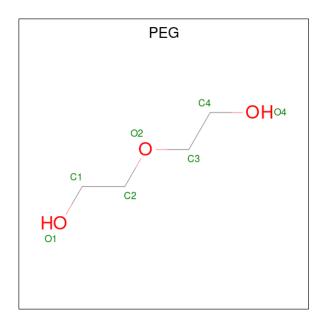
 \bullet Molecule 3 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: $\mathrm{C_2H_6O_2}).$



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

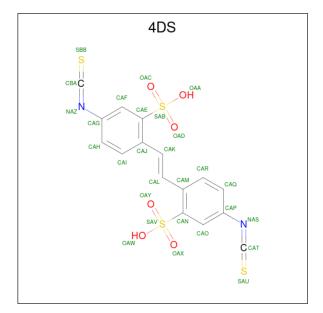
 $\bullet \ \ Molecule \ 4 \ is \ DI(HYDROXYETHYL)ETHER \ (three-letter \ code: \ PEG) \ (formula: \ C_4H_{10}O_3).$





Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	1	Total C O 7 4 3	0	0
4	A	1	Total C O 7 4 3	0	0
4	A	1	Total C O 7 4 3	0	0

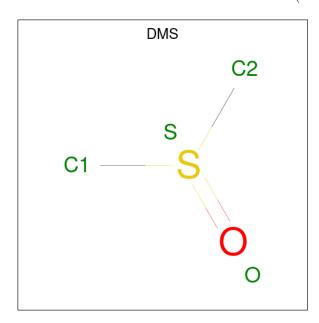
 \bullet Molecule 5 is 4,4'-Diisothiocyano-2,2'-stilbenedisulfonic acid (three-letter code: 4DS) (formula: $C_{16}H_{10}N_2O_6S_4).$





Mol	Chain	Residues		Ato	ms			ZeroOcc	AltConf
5	Λ	1	Total	С	N	О	S	0	0
9	Α	1	28	16	2	6	4		
5	Λ	1	Total	С	N	О	S	0	0
9	А	1	28	16	2	6	4		
5	Λ	1	Total	С	N	О	S	0	0
	Α	1	28	16	2	6	4		

 \bullet Molecule 6 is DIMETHYL SULFOXIDE (three-letter code: DMS) (formula: $\mathrm{C_2H_6OS}).$



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

• Molecule 7 is water.

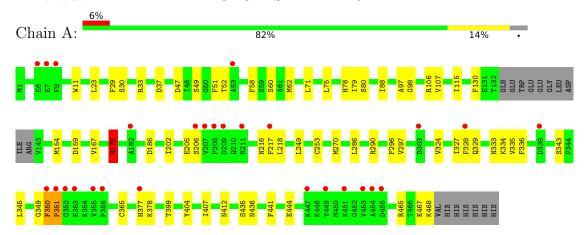
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	A	283	Total O 283 283	0	0



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: ADENYLATE CYCLASE TYPE 10





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 63	Depositor
Cell constants	100.51Å 100.51Å 97.41Å	Donogiton
a, b, c, α , β , γ	90.00° 90.00° 120.00°	Depositor
Resolution (Å)	87.04 - 1.90	Depositor
Resolution (A)	48.71 - 1.90	EDS
% Data completeness	99.9 (87.04-1.90)	Depositor
(in resolution range)	100.0 (48.71-1.90)	EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	2.84 (at 1.90Å)	Xtriage
Refinement program	REFMAC 5.8.0049	Depositor
D D.	0.161 , 0.199	Depositor
R, R_{free}	0.170 , 0.201	DCC
R_{free} test set	2210 reflections (5.02%)	wwPDB-VP
Wilson B-factor (Å ²)	24.8	Xtriage
Anisotropy	0.104	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.35, 52.1	EDS
L-test for twinning ²	$< L > = 0.50, < L^2> = 0.33$	Xtriage
Estimated twinning fraction	0.046 for h,-h-k,-l	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	4116	wwPDB-VP
Average B, all atoms (Å ²)	33.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 3.60% of the height of the origin peak. No significant pseudotranslation is detected.

²Theoretical 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.



¹Intensities estimated from amplitudes.

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: CME, PEG, EDO, ACT, DMS, 4DS

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	Boı	nd lengths	Bond angles	
Moi Cha	Chain	RMSZ	# Z > 5	RMSZ	# Z > 5
1	A	0.96	1/3814 (0.0%)	0.96	6/5161 (0.1%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	Observed(A)	$\operatorname{Ideal}(ext{\AA})$
1	A	444	GLU	CD-OE1	5.73	1.31	1.25

The worst 5 of 6 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$Observed(^o)$	$Ideal(^{o})$
1	A	159	ASP	CB-CG-OD1	7.12	124.71	118.30
1	A	176	ARG	NE-CZ-NH1	5.94	123.27	120.30
1	A	186	ASP	CB-CG-OD1	5.93	123.63	118.30
1	A	159	ASP	CB-CG-OD2	-5.70	113.17	118.30
1	A	33	ARG	NE-CZ-NH1	5.65	123.13	120.30

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	3692	0	3700	72	0
2	A	16	0	12	6	0

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Continued	11 0116	DICUIUUS	Daue
	.,	10	1

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	A	12	0	17	6	0
4	A	21	0	30	11	0
5	A	84	0	25	1	0
6	A	8	0	12	2	0
7	A	283	0	0	11	0
All	All	4116	0	3796	80	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 10.

The worst 5 of 80 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:399:THR:H	2:A:1471:ACT:H2	1.23	0.98
1:A:52:THR:HG21	1:A:412[A]:ASN:HD21	1.41	0.85
1:A:51:PHE:CZ	1:A:71[A]:LEU:HD11	2.17	0.79
3:A:1475:EDO:H12	7:A:2152:HOH:O	1.83	0.77
3:A:1475:EDO:C1	7:A:2152:HOH:O	2.33	0.76

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	Percer	ntiles
1	A	468/475 (98%)	453 (97%)	14 (3%)	1 (0%)	47	38

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	351	PRO



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.

Mo	l Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	411/418 (98%)	404 (98%)	7 (2%)	60 57

5 of 7 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	217	PHE
1	A	296	PHE
1	A	350	PHE
1	A	329	GLN
1	A	206	SER

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)

1 non-standard protein/DNA/RNA residue 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	Pos	Link	Bond lengths			Bond angles		
Mol	Type	Chain	nes	Link	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	CME	A	253	1	8,9,10	0.66	0	5,9,11	1.52	1 (20%)



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	253	1	-	1/5/8/10	-

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
1	A	253	CME	CZ-CE-SD	-2.64	104.20	113.37

There are no chirality outliers.

All (1) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	A	253	CME	CA-CB-SG-SD

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)

15 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	Bo	Bond lengths		Bond angles		
MIOI	туре	Chain	nes	LIIIK	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
5	4DS	A	1479	-	27,29,29	1.52	6 (22%)	38,42,42	1.63	8 (21%)



Mol	Trino	Chain	Res	Link	Bo	ond leng	ths	В	ond ang	gles
MIOI	Type	Chain	nes	Lilik	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
5	4DS	A	1480	-	27,29,29	1.47	5 (18%)	38,42,42	1.69	11 (28%)
4	PEG	A	1477	-	6,6,6	1.13	0	5,5,5	1.88	2 (40%)
3	EDO	A	1475	-	3,3,3	0.72	0	2,2,2	0.69	0
6	DMS	A	1482	-	3,3,3	0.92	0	3,3,3	0.51	0
2	ACT	A	1470	-	3,3,3	1.25	0	3,3,3	0.11	0
2	ACT	A	1469	-	3,3,3	0.60	0	3,3,3	1.90	1 (33%)
3	EDO	A	1473	-	3,3,3	0.75	0	2,2,2	0.86	0
4	PEG	A	1476	-	6,6,6	0.38	0	5,5,5	1.41	1 (20%)
2	ACT	A	1472	-	3,3,3	0.97	0	3,3,3	0.82	0
5	4DS	A	1481	-	27,29,29	1.55	3 (11%)	38,42,42	1.86	11 (28%)
6	DMS	A	1483	-	3,3,3	0.33	0	3,3,3	0.79	0
4	PEG	A	1478	-	6,6,6	1.07	0	5,5,5	0.98	0
3	EDO	A	1474	-	3,3,3	0.66	0	2,2,2	0.33	0
2	ACT	A	1471	-	3,3,3	1.31	0	3,3,3	1.02	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	4DS	A	1479	-	-	0/21/23/23	0/2/2/2
5	4DS	A	1480	-	-	0/21/23/23	0/2/2/2
4	PEG	A	1477	-	-	3/4/4/4	_
3	EDO	A	1475	-	-	1/1/1/1	-
3	EDO	A	1473	-	-	1/1/1/1	_
4	PEG	A	1476	-	-	3/4/4/4	-
5	4DS	A	1481	-	-	0/21/23/23	0/2/2/2
4	PEG	A	1478	_	_	3/4/4/4	-
3	EDO	A	1474	-	-	0/1/1/1	-

The worst 5 of 14 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\mathbf{Observed}(\mathbf{\mathring{A}})$	$Ideal(\AA)$
5	A	1481	4DS	CAJ-CAK	-4.47	1.40	1.47
5	A	1480	4DS	CAJ-CAK	-3.66	1.41	1.47
5	A	1479	4DS	CAM-CAL	-3.55	1.41	1.47
5	A	1481	4DS	CAM-CAL	-3.47	1.41	1.47
5	A	1480	4DS	CAM-CAL	-2.91	1.42	1.47

The worst 5 of 34 bond angle outliers are listed below:



Mol	Chain	Res	Type	Atoms	Z	$Observed(^o)$	$\operatorname{Ideal}({}^o)$
5	A	1481	4DS	CAE-CAJ-CAK	-5.49	117.12	122.58
5	A	1479	4DS	CAG-NAZ-CBA	-4.59	118.51	161.82
5	A	1479	4DS	CAM-CAN-SAV	-3.59	117.76	121.60
5	A	1480	4DS	CAP-NAS-CAT	-3.53	128.55	161.82
5	A	1481	4DS	CAG-NAZ-CBA	-3.46	129.15	161.82

There are no chirality outliers.

5 of 11 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	A	1477	PEG	C1-C2-O2-C3
4	A	1477	PEG	O1-C1-C2-O2
3	A	1473	EDO	O1-C1-C2-O2
3	A	1475	EDO	O1-C1-C2-O2
4	A	1476	PEG	O1-C1-C2-O2

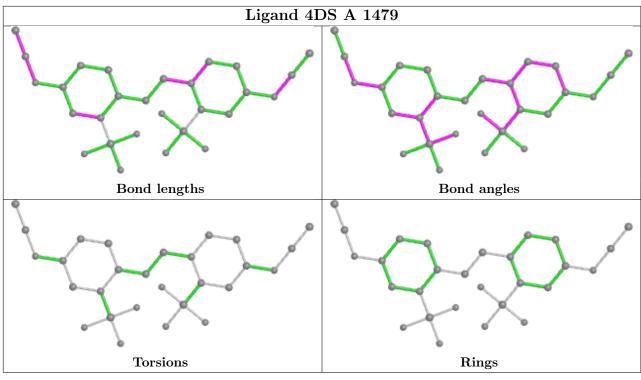
There are no ring outliers.

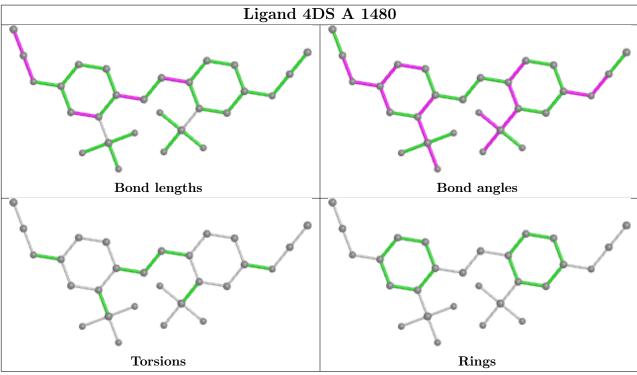
10 monomers are involved in 26 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	A	1480	4DS	1	0
4	A	1477	PEG	3	0
3	A	1475	EDO	4	0
6	A	1482	DMS	2	0
2	A	1470	ACT	2	0
2	A	1469	ACT	1	0
3	A	1473	EDO	2	0
4	A	1476	PEG	6	0
4	A	1478	PEG	2	0
2	A	1471	ACT	3	0

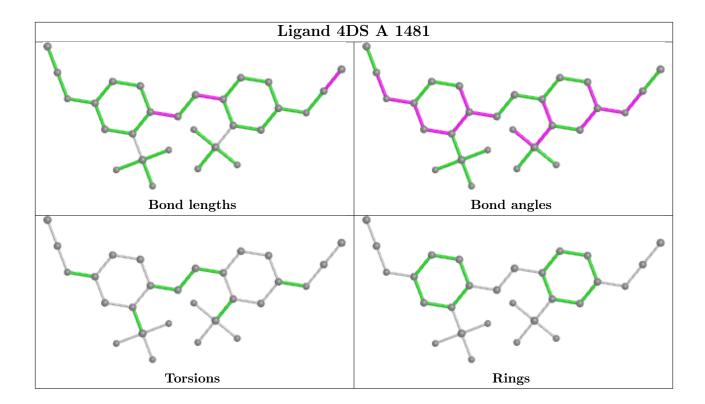
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. 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.











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^{th} 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	$\langle { m RSRZ} \rangle$	# RSRZ > 2			$OWAB(A^2)$	Q < 0.9
1	A	457/475 (96%)	0.10	27 (5%)	22 25	5	12, 29, 63, 92	0

The worst 5 of 27 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	355	VAL	7.0
1	A	351	PRO	6.9
1	A	356	PRO	6.4
1	A	350	PHE	5.8
1	A	352	GLY	5.5

6.2 Non-standard residues in protein, DNA, RNA chains (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^{th} 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	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q < 0.9
1	CME	A	253	10/11	0.97	0.09	16,19,35,40	0

6.3 Carbohydrates (i)

There are no monosaccharides in this entry.

6.4 Ligands (i)

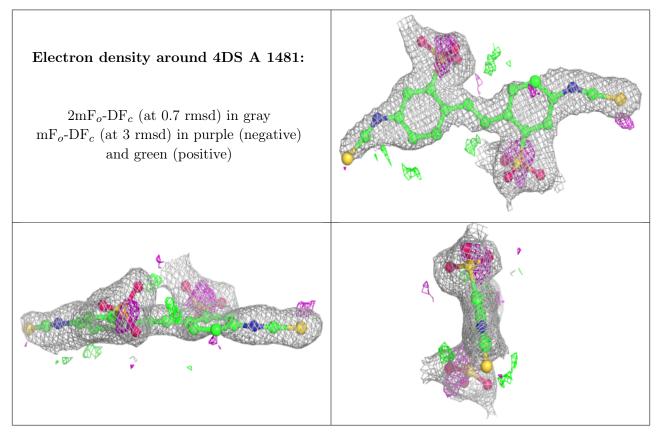
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum,



median, 95^{th} 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.

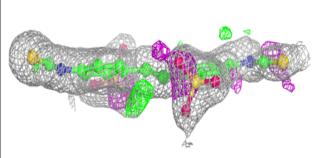
Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\operatorname{B-factors}(\mathring{\mathrm{A}}^2)$	Q<0.9
4	PEG	A	1477	7/7	0.61	0.29	33,42,50,55	0
4	PEG	A	1478	7/7	0.71	0.26	35,44,54,58	0
2	ACT	A	1472	4/4	0.79	0.24	32,42,57,61	0
3	EDO	A	1475	4/4	0.80	0.24	53,55,57,60	0
2	ACT	A	1471	4/4	0.83	0.22	18,27,45,49	0
4	PEG	A	1476	7/7	0.83	0.22	32,39,43,46	0
3	EDO	A	1474	4/4	0.84	0.16	52,54,56,57	0
6	DMS	A	1483	4/4	0.88	0.17	61,63,67,68	0
5	4DS	A	1481	28/28	0.92	0.16	41,54,65,88	0
2	ACT	A	1470	4/4	0.92	0.11	35,36,44,45	0
5	4DS	A	1480	28/28	0.93	0.15	38,57,67,76	0
5	4DS	A	1479	28/28	0.95	0.13	19,32,46,64	0
3	EDO	A	1473	4/4	0.95	0.17	25,31,31,34	0
6	DMS	A	1482	4/4	0.96	0.08	25,28,32,35	0
2	ACT	A	1469	4/4	0.96	0.13	27,33,40,43	0

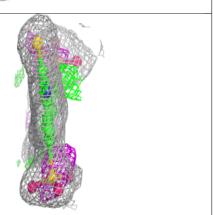
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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





Electron density around 4DS A 1480: $2 \mathrm{mF}_o\text{-}\mathrm{DF}_c$ (at 0.7 rmsd) in gray ${\rm mF}_o\text{-}{\rm DF}_c$ (at 3 rmsd) in purple (negative) and green (positive) Electron density around 4DS A 1479: $2 \mathrm{mF}_o\text{-}\mathrm{DF}_c$ (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.

