

wwPDB X-ray Structure Validation Summary Report (i)

Oct 9, 2023 – 04:41 PM EDT

PDB ID : 8D5R

Title: Structure of Y430F D-ornithine/D-lysine decarboxylase complex with D-

ornithine

Authors: Phillips, R.S.; Nguyen Hoang, K.N.

Deposited on : 2022-06-06

Resolution : 1.44 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 : 1.8.5 (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)

 $Refmac \quad : \quad 5.8.0158$

CCP4 : 7.0.044 (Gargrove)

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

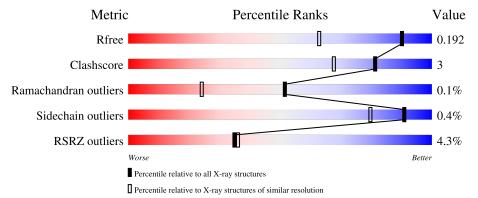
Validation Pipeline (wwPDB-VP) : 2.35.1

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 1.44 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 $(\# \mathrm{Entries})$	$\begin{array}{c} {\rm Similar\ resolution} \\ (\#{\rm Entries,\ resolution\ range(\mathring{A})}) \end{array}$
R_{free}	130704	2021 (1.46-1.42)
Clashscore	141614	2086 (1.46-1.42)
Ramachandran outliers	138981	2047 (1.46-1.42)
Sidechain outliers	138945	2047 (1.46-1.42)
RSRZ outliers	127900	1993 (1.46-1.42)

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	477	90%	7%	.
1	В	477	89%	7%	



2 Entry composition (i)

There are 9 unique types of molecules in this entry. The entry contains 8900 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 D-ornithine/D-lysine decarboxylase.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1	A	461	Total 3974	C 2520	N 681	O 748	S 25	0	46	0
1	В	459	Total 3951	C 2500	N 684	O 742	S 25	0	44	0

There are 26 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	430	PHE	TYR	engineered mutation	UNP Q8ZNC4
A	466	LEU	-	expression tag	UNP Q8ZNC4
A	467	ALA	-	expression tag	UNP Q8ZNC4
A	468	ALA	-	expression tag	UNP Q8ZNC4
A	469	ALA	-	expression tag	UNP Q8ZNC4
A	470	LEU	-	expression tag	UNP Q8ZNC4
A	471	GLU	-	expression tag	UNP Q8ZNC4
A	472	HIS	-	expression tag	UNP Q8ZNC4
A	473	HIS	-	expression tag	UNP Q8ZNC4
A	474	HIS	-	expression tag	UNP Q8ZNC4
A	475	HIS	-	expression tag	UNP Q8ZNC4
A	476	HIS	-	expression tag	UNP Q8ZNC4
A	477	HIS	-	expression tag	UNP Q8ZNC4
В	430	PHE	TYR	engineered mutation	UNP Q8ZNC4
В	466	LEU	-	expression tag	UNP Q8ZNC4
В	467	ALA	-	expression tag	UNP Q8ZNC4
В	468	ALA	-	expression tag	UNP Q8ZNC4
В	469	ALA	-	expression tag	UNP Q8ZNC4
В	470	LEU	-	expression tag	UNP Q8ZNC4
В	471	GLU	-	expression tag	UNP Q8ZNC4
В	472	HIS	-	expression tag	UNP Q8ZNC4
В	473	HIS	-	expression tag	UNP Q8ZNC4
В	474	HIS	-	expression tag	UNP Q8ZNC4
В	475	HIS	-	expression tag	UNP Q8ZNC4
В	476	HIS	-	expression tag	UNP Q8ZNC4

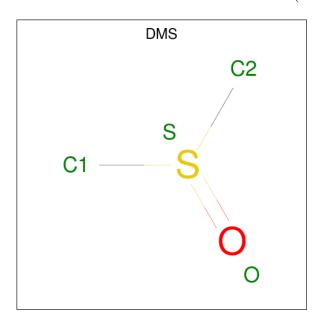
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Chain	Residue	Modelled	Actual	Comment	Reference
В	477	HIS	-	expression tag	UNP Q8ZNC4

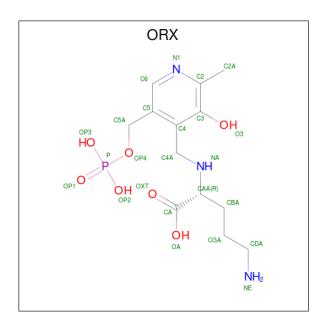
• Molecule 2 is DIMETHYL SULFOXIDE (three-letter code: DMS) (formula: C₂H₆OS).



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

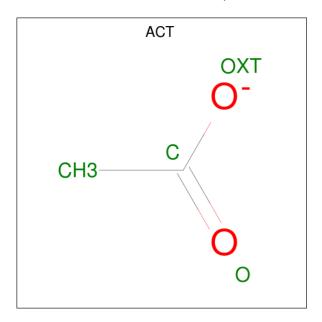
• Molecule 3 is N 2 -({3-HYDROXY-2-METHYL-5-[(PHOSPHONOOXY)METHYL]PYRI DIN-4-YL}METHYL)-D-ORNITHINE (three-letter code: ORX) (formula: $C_{13}H_{22}N_3O_7P$) (labeled as "Ligand of Interest" by depositor).





Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	
9	٨	1	Total	С	N	О	Р	0	0
3	3 A	1	24	13	3	7	1	U	0
9	D	1	Total	С	N	О	Р	0	1
3	Б	1	48	26	6	14	2	U	1

 \bullet Molecule 4 is ACETATE ION (three-letter code: ACT) (formula: $\mathrm{C_2H_3O_2}).$



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



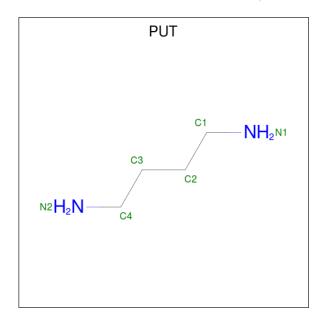
• Molecule 5 is SODIUM ION (three-letter code: NA) (formula: Na).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	1	Total Na 1 1	0	0
5	В	2	Total Na 2 2	0	0

• Molecule 6 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	A	1	Total Cl 1 1	0	0
6	В	1	Total Cl 1 1	0	0

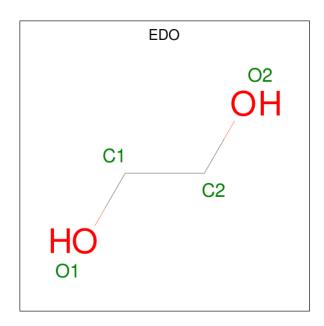
• Molecule 7 is 1,4-DIAMINOBUTANE (three-letter code: PUT) (formula: $C_4H_{12}N_2$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	В	1	Total C N 6 4 2	0	0

 \bullet Molecule 8 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: $\mathrm{C_2H_6O_2}).$





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

• Molecule 9 is water.

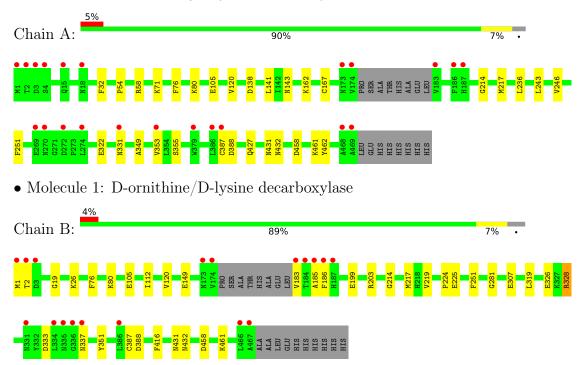
\mathbf{Mol}	Chain	Residues	${f Atoms}$	ZeroOcc	AltConf
9	A	421	Total O 421 421	0	42
9	В	443	Total O 443 443	0	31



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: D-ornithine/D-lysine decarboxylase





4 Data and refinement statistics (i)

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants	141.53Å 50.20Å 140.28Å	Donositor
a, b, c, α , β , γ	90.00° 116.00° 90.00°	Depositor
Resolution (Å)	37.34 - 1.44	Depositor
Resolution (A)	37.33 - 1.44	EDS
% Data completeness	99.9 (37.34-1.44)	Depositor
(in resolution range)	99.8 (37.33-1.44)	EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	1.15 (at 1.44Å)	Xtriage
Refinement program	PHENIX 1.20.1_4487	Depositor
D D	0.165 , 0.190	Depositor
R, R_{free}	0.165 , 0.192	DCC
R_{free} test set	2000 reflections (1.25%)	wwPDB-VP
Wilson B-factor (Å ²)	20.4	Xtriage
Anisotropy	0.448	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.34, 48.2	EDS
L-test for twinning ²	$ < L >=0.51, < L^2>=0.34$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.98	EDS
Total number of atoms	8900	wwPDB-VP
Average B, all atoms (Å ²)	33.0	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 47.73 % 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 9.5150e-05. The detected translational NCS is most likely also responsible for the elevated intensity ratio.

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: CL, DMS, ORX, NA, EDO, PUT, ACT

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		
IVIOI		RMSZ	# Z > 5	RMSZ	# Z > 5	
1	A	0.49	0/4113	0.71	1/5560~(0.0%)	
1	В	0.55	0/4089	0.73	0/5522	
All	All	0.52	0/8202	0.72	1/11082 (0.0%)	

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	В	0	1

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^o)$	$Ideal(^{o})$
1	A	32	PHE	CB-CG-CD1	5.85	124.90	120.80

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol			V -	Group
1	В	328[A]	ARG	Sidechain

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



. 1	, .	• 1	1 (α	α_1 1	1. /		1 , 1	1 1
the ass	zmmetric	11n1t	whereas S	Symm-	Liashes	LISTS ST	vmmetry	v-related	clashes
UIIC COD	y IIIIII OUI IO	aiii o,	WITCICOD	\cup y IIIIII	CIUDIICO	110000	y IIIIIIC UI	y iciauca	CIGOTICO.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	3974	0	3905	21	0
1	В	3951	0	3883	24	0
2	A	8	0	12	0	0
2	В	8	0	12	0	0
3	A	24	0	18	0	0
3	В	48	0	37	2	0
4	A	4	0	3	0	0
4	В	4	0	3	0	0
5	A	1	0	0	0	0
5	В	2	0	0	0	0
6	A	1	0	0	0	0
6	В	1	0	0	0	0
7	В	6	0	12	0	0
8	В	4	0	6	0	0
9	A	421	0	0	4	0
9	В	443	0	0	4	0
All	All	8900	0	7891	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 3.

The worst 5 of 41 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	$egin{aligned} & ext{Interatomic} \ & ext{distance} \ & ext{(Å)} \end{aligned}$	$\begin{array}{c} \text{Clash} \\ \text{overlap } (\text{\AA}) \end{array}$
1:B:387[B]:CYS:SG	1:B:388[B]:ASP:N	2.65	0.69
1:A:71[A]:LYS:NZ	9:A:606:HOH:O	2.31	0.64
1:A:120[A]:VAL:HG12	1:A:141:LEU:HB2	1.81	0.61
1:B:326[B]:GLU:OE1	9:B:601[B]:HOH:O	2.18	0.56
3:B:503[B]:ORX:NA	3:B:503[B]:ORX:O3	2.38	0.56

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	Perce	\mathbf{ntiles}
1	A	503/477 (106%)	489 (97%)	14 (3%)	0	100	100
1	В	499/477 (105%)	488 (98%)	9 (2%)	2 (0%)	34	13
All	All	1002/954 (105%)	977 (98%)	23~(2%)	2 (0%)	51	23

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	В	19[A]	GLY
1	В	19[B]	GLY

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	eric Outliers		Percentiles		
1	A	435/406 (107%)	434 (100%)	1 (0%)	93	83		
1	В	431/406 (106%)	428 (99%)	3 (1%)	84	64		
All	All	866/812 (107%)	862 (100%)	4 (0%)	91	74		

All (4) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	431	ASN
1	В	149[A]	GLU
1	В	149[B]	GLU
1	В	431	ASN

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)

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 16 ligands modelled in this entry, 5 are monoatomic - leaving 11 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).

Mal	Trino	Chain	Res	Link	Во	ond leng	ths	Bond angles		
Mol	Type	Chain	Res	Link	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	DMS	В	502	-	3,3,3	0.62	0	3,3,3	0.51	0
3	ORX	A	502	1	24,24,24	1.98	6 (25%)	29,33,33	1.22	3 (10%)
2	DMS	В	506	-	3,3,3	0.70	0	3,3,3	0.40	0
2	DMS	A	504	-	3,3,3	0.68	0	3,3,3	0.50	0
3	ORX	В	503[A]	1	24,24,24	2.12	6 (25%)	29,33,33	1.58	5 (17%)
4	ACT	В	504	-	3,3,3	1.31	0	3,3,3	1.37	0
4	ACT	A	503	-	3,3,3	1.40	1 (33%)	3,3,3	1.36	0
3	ORX	В	503[B]	-	24,24,24	1.99	6 (25%)	29,33,33	1.22	3 (10%)
7	PUT	В	501	-	5,5,5	0.29	0	4,4,4	0.14	0
8	EDO	В	505	-	3,3,3	0.40	0	2,2,2	0.55	0
2	DMS	A	501	-	3,3,3	0.61	0	3,3,3	0.43	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	ORX	A	502	1	-	3/19/19/19	0/1/1/1
3	ORX	В	503[A]	1	-	2/19/19/19	0/1/1/1
8	EDO	В	505	-	-	0/1/1/1	-

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$oldsymbol{\Lambda}$	/Iol	Type	Chain	Res	Link	Chirals	Torsions	Rings
	7	PUT	В	501	-	-	0/3/3/3	-
	3	ORX	В	503[B]	-	-	9/19/19/19	0/1/1/1

The worst 5 of 19 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\operatorname{Observed}(\operatorname{\AA})$	Ideal(Å)
3	В	503[A]	ORX	C4A-C4	6.41	1.60	1.51
3	A	502	ORX	C4A-C4	5.88	1.59	1.51
3	В	503[B]	ORX	C4A-C4	5.26	1.58	1.51
3	В	503[B]	ORX	O3-C3	3.34	1.44	1.37
3	В	503[B]	ORX	C2A-C2	3.33	1.56	1.50

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

Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^o)$	$\operatorname{Ideal}({}^{o})$
3	В	503[A]	ORX	C6-C5-C4	4.91	121.59	118.12
3	В	503[A]	ORX	C5-C6-N1	-3.18	118.52	123.82
3	В	503[B]	ORX	C6-C5-C4	2.81	120.10	118.12
3	В	503[B]	ORX	C5-C6-N1	-2.68	119.35	123.82
3	A	502	ORX	OA-CA-CAA	2.66	122.25	113.40

There are no chirality outliers.

5 of 14 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	502	ORX	CA-CAA-NA-C4A
3	A	502	ORX	CBA-CAA-NA-C4A
3	В	503[B]	ORX	CBA-CAA-NA-C4A
3	В	503[B]	ORX	NA-CAA-CBA-CGA
3	В	503[B]	ORX	C5-C4-C4A-NA

There are no ring outliers.

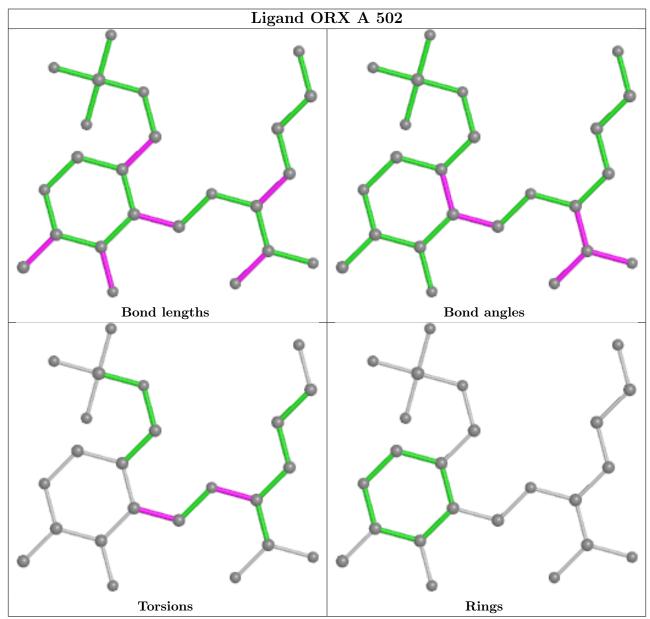
1 monomer is involved in 2 short contacts:

Mol			V -		Symm-Clashes
3	В	503[B]	ORX	2	0

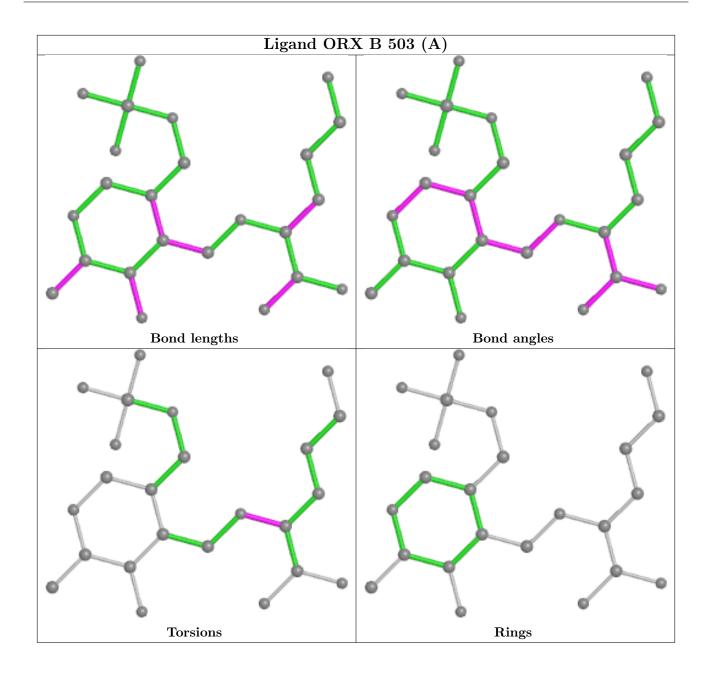
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less then 5% of the Mogul distribution of torsion angles is



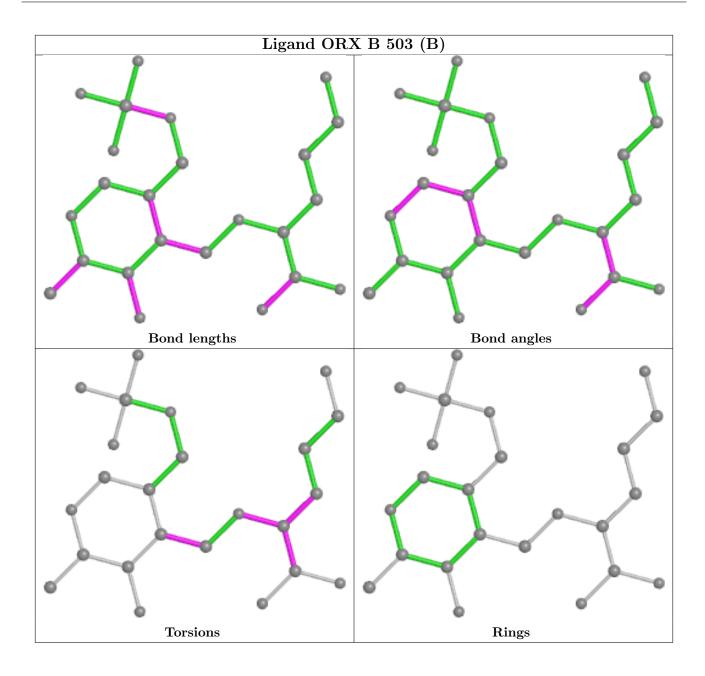
within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question 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.



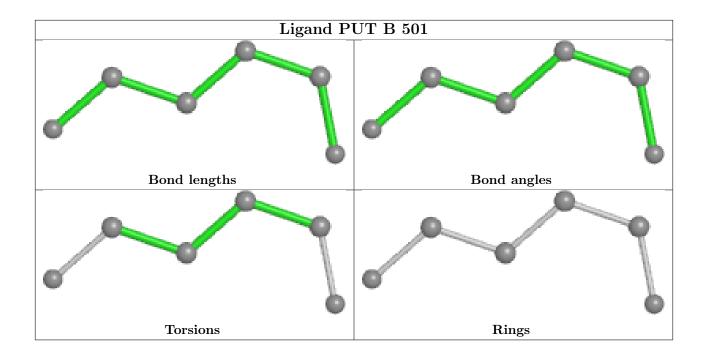












5.7 Other polymers (i)

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	<RSRZ $>$	$\#\mathrm{RSRZ}{>}2$		$\mathbf{OWAB}(\mathbf{\mathring{A}}^2)$	Q < 0.9	
1	A	461/477~(96%)	0.03	22 (4%)	30	31	19, 31, 61, 115	0
1	В	459/477~(96%)	-0.17	18 (3%)	39	40	16, 27, 55, 108	0
All	All	920/954 (96%)	-0.07	40 (4%)	35	36	16, 29, 61, 115	0

The worst 5 of 40 RSRZ outliers are listed below:

Mol	Chain Res		Type	RSRZ	
1	A	1	MET	8.6	
1	В	186	PHE	8.5	
1	В	1	MET	7.4	
1	В	183	VAL	7.2	
1	В	334	LEU	6.4	

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.

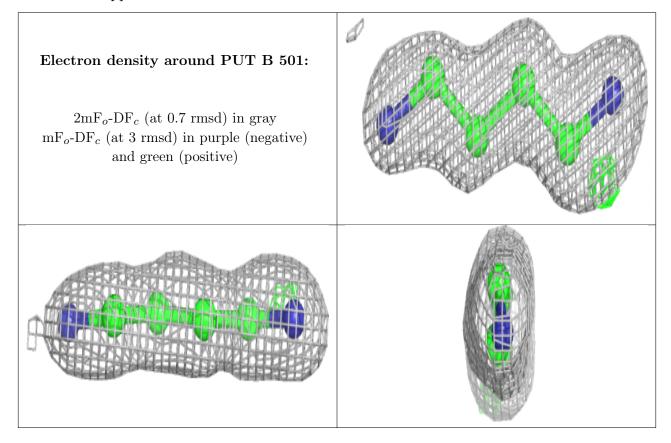
6.4 Ligands (i)

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^{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.

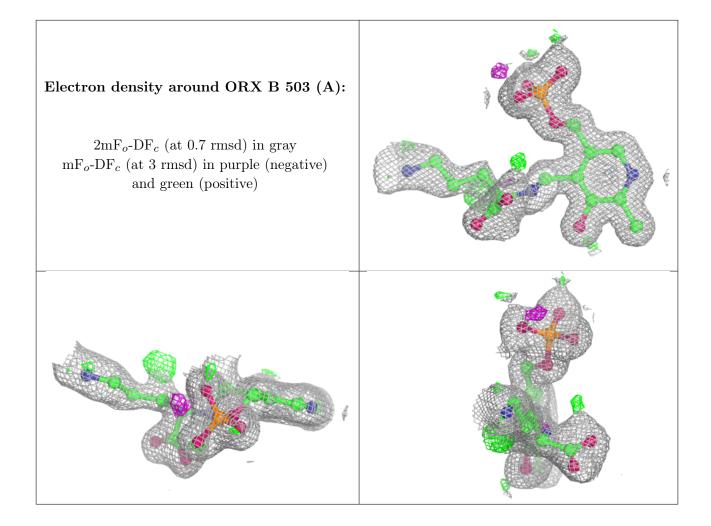


Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q<0.9
4	ACT	A	503	4/4	0.79	0.20	33,58,60,64	0
7	PUT	В	501	6/6	0.88	0.09	38,40,40,49	0
4	ACT	В	504	4/4	0.91	0.19	45,46,65,70	0
2	DMS	A	501	4/4	0.91	0.14	47,60,63,85	0
2	DMS	В	502	4/4	0.94	0.11	45,60,62,83	0
8	EDO	В	505	4/4	0.94	0.08	34,54,58,63	0
2	DMS	В	506	4/4	0.95	0.10	35,47,51,54	0
3	ORX	В	503[A]	24/24	0.97	0.10	18,24,45,48	24
6	CL	A	506	1/1	0.97	0.05	27,27,27,27	1
3	ORX	В	503[B]	24/24	0.97	0.10	19,26,43,48	24
3	ORX	A	502	24/24	0.97	0.08	20,23,53,62	0
5	NA	В	508	1/1	0.98	0.11	40,40,40,40	0
2	DMS	A	504	4/4	0.98	0.15	44,51,54,59	0
5	NA	A	505	1/1	0.98	0.14	26,26,26,26	0
5	NA	В	507	1/1	0.98	0.11	29,29,29,29	0
6	CL	В	509	1/1	0.99	0.02	33,33,33,33	0

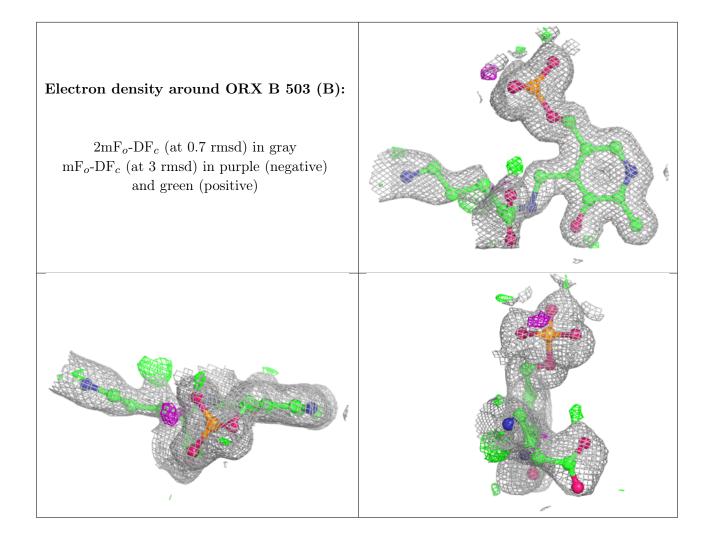
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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



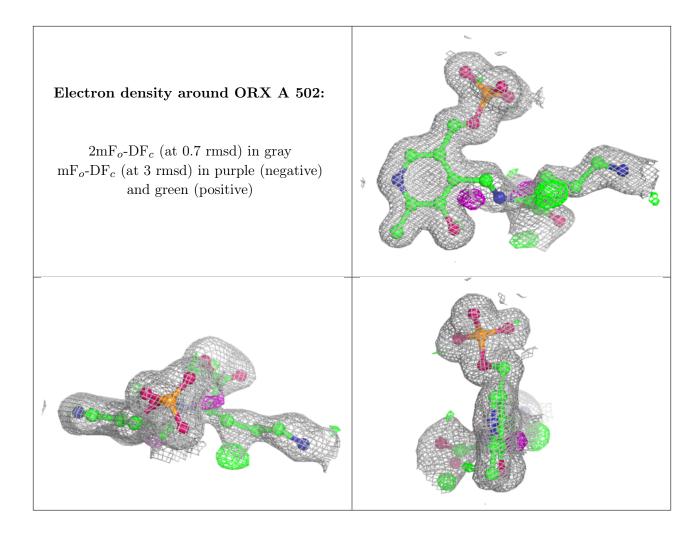












6.5 Other polymers (i)

There are no such residues in this entry.

