



Full wwPDB X-ray Structure Validation Report ⓘ

Aug 6, 2017 – 05:41 AM EDT

PDB ID : 4UTL
Title : XenA - reduced - Y183F variant in complex with coumarin
Authors : Werther, T.; Dobbek, H.
Deposited on : unknown
Resolution : 1.23 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

A user guide is available at

<http://wwpdb.org/validation/2016/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.7.2 (RC1), CSD as538be (2017)
Xtriage (Phenix) : 1.9-1692
EDS : rb-20029824
Percentile statistics : 20161228.v01 (using entries in the PDB archive December 28th 2016)
Refmac : 5.8.0135
CCP4 : 6.5.0
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : rb-20029824

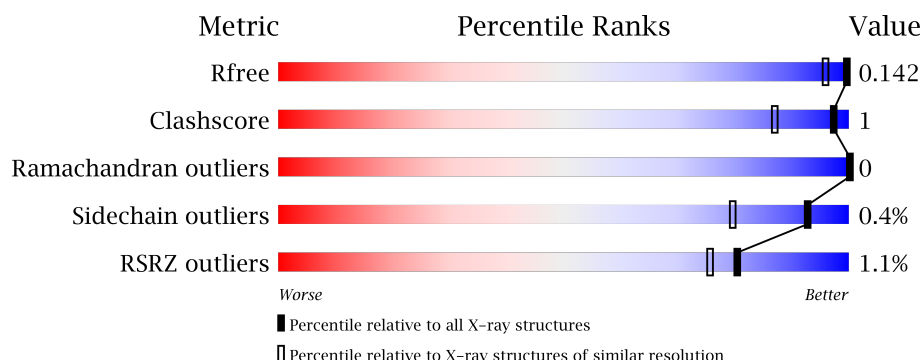
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.23 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}	100719	1464 (1.26-1.18)
Clashscore	112137	1560 (1.26-1.18)
Ramachandran outliers	110173	1499 (1.26-1.18)
Sidechain outliers	110143	1497 (1.26-1.18)
RSRZ outliers	101464	1466 (1.26-1.18)

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 ≥ 3 , 2, 1 and 0 types of geometric quality criteria. 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	365	<div> <div style="width: 100%; height: 10px; position: relative;"> <div style="position: absolute; top: -10px; left: 0; width: 100%;"></div> <div style="position: absolute; bottom: -10px; left: 0; width: 100%;"></div> <div style="position: absolute; top: 0; left: 0; width: 100%; height: 10px; background: linear-gradient(to right, red, orange, yellow, green, grey);"></div> <div style="position: absolute; bottom: 0; left: 0; width: 100%; height: 10px; background: linear-gradient(to right, red, orange, yellow, green, grey);"></div> <div style="position: absolute; top: 0; left: 0; width: 100%; height: 10px; background: linear-gradient(to right, red, orange, yellow, green, grey);"></div> <div style="position: absolute; bottom: 0; left: 0; width: 100%; height: 10px; background: linear-gradient(to right, red, orange, yellow, green, grey);"></div> <div style="position: absolute; top: 0; left: 0; width: 100%; height: 10px; background: linear-gradient(to right, red, orange, yellow, green, grey);"></div> <div style="position: absolute; 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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
3	COU	A	1364	-	-	-	X
3	COU	A	1365	-	-	-	X

2 Entry composition [i](#)

There are 5 unique types of molecules in this entry. The entry contains 6322 atoms, of which 2955 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.

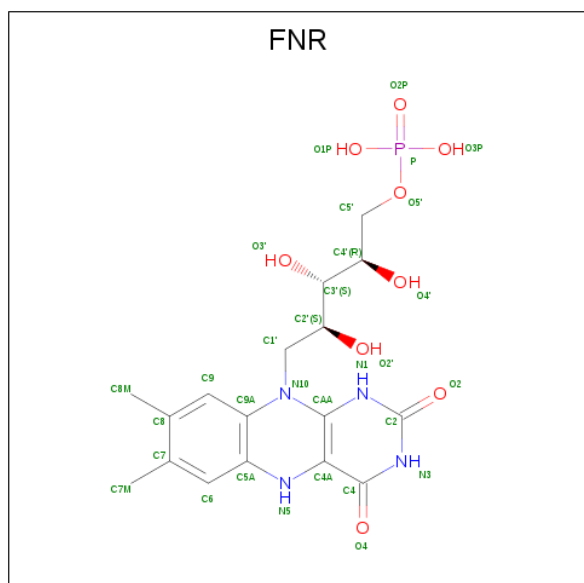
- Molecule 1 is a protein called XENOBIOTIC REDUCTASE.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
			Total	C	H	N	O	S			
1	A	359	5865	1890	2911	519	536	9	0	29	0

There are 6 discrepancies between the modelled and reference sequences:

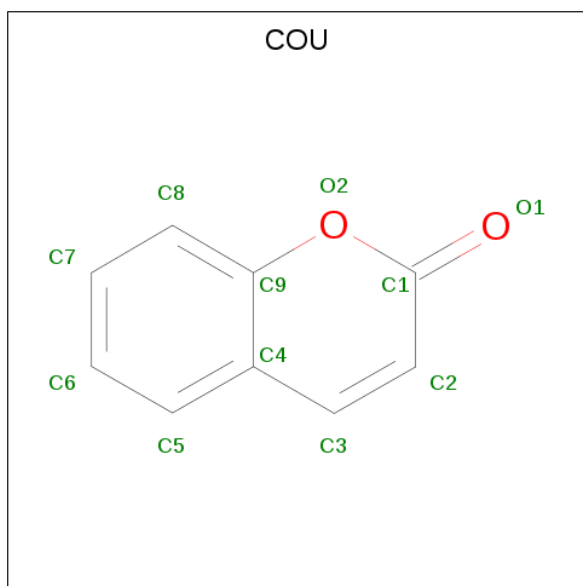
Chain	Residue	Modelled	Actual	Comment	Reference
A	-1	GLY	-	expression tag	UNP Q3ZDM6
A	0	HIS	-	expression tag	UNP Q3ZDM6
A	124	THR	ALA	SEE REMARK 999	UNP Q3ZDM6
A	183	PHE	TYR	engineered mutation	UNP Q3ZDM6
A	205	ASP	GLU	SEE REMARK 999	UNP Q3ZDM6
A	275	ASN	HIS	SEE REMARK 999	UNP Q3ZDM6

- Molecule 2 is 1-DEOXY-1-(7,8-DIMETHYL-2,4-DIOXO-3,4-DIHYDRO-2H-BENZO[G]P TERIDIN-1-ID-10(5H)-YL)-5-O-PHOSPHONATO-D-RIBITOL (three-letter code: FNR) (formula: $C_{17}H_{23}N_4O_9P$).



Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
2	A	1	Total	C	H	N	O	P	0	0
			51	17	20	4	9	1		

- Molecule 3 is COUMARIN (three-letter code: COU) (formula: $C_9H_6O_2$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	1	Total	C	H	O	0	0
			17	9	6	2		
3	A	1	Total	C	H	O	0	0
			17	9	6	2		
3	A	1	Total	C	H	O	0	0
			17	9	6	2		
3	A	1	Total	C	H	O	0	0
			17	9	6	2		

- Molecule 4 is SULFATE ION (three-letter code: SO4) (formula: O_4S).



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

- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	323	Total	O	0	0
			323	323		

3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA and DNA 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: XENOBIOTIC REDUCTASE

Chain A: 



GLOBAL-STATISTICS INFOmissingINFO

4 Model quality [i](#)

4.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: COU, FNR, SO4

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	0.44	0/3103	0.65	0/4222

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	1

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	202[A]	GLY	Mainchain

4.2 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	2954	2911	2922	6	1
2	A	31	20	22	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	A	44	24	24	0	0
4	A	15	0	0	0	0
5	A	323	0	0	1	0
All	All	3367	2955	2968	6	1

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 1.

All (6) 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:286:ILE:HG12	5:A:2280:HOH:O	2.17	0.45
1:A:281:ALA:HB2	1:A:309[B]:LEU:HG	2.00	0.44
1:A:25:CYS:H	2:A:1361:FNR:H5	1.66	0.44
1:A:131:ALA:HB1	1:A:132:PRO:HD2	2.02	0.41
1:A:180:ALA:HA	1:A:186:GLN:OE1	2.22	0.40
1:A:15[A]:LEU:HD23	1:A:95:VAL:HG21	2.03	0.40

All (1) 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:41:HIS:HD1	1:A:355:TYR:HH[2_555]	1.06	0.54

4.3 Torsion angles ⓘ

4.3.1 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	385/365 (106%)	369 (96%)	16 (4%)	0	100 100

There are no Ramachandran outliers to report.

4.3.2 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	303/280 (108%)	302 (100%)	1 (0%)	94	81

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

Mol	Chain	Res	Type
1	A	178	HIS

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

4.3.3 RNA [i](#)

There are no RNA molecules in this entry.

4.4 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

4.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

4.6 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
2	FNR	A	1361	-	29,33,33	1.74	4 (13%)	34,50,50	1.56	5 (14%)
3	COU	A	1362	-	10,12,12	1.24	1 (10%)	10,16,16	1.19	1 (10%)
3	COU	A	1363	-	10,12,12	1.09	0	10,16,16	1.64	3 (30%)
3	COU	A	1364	-	10,12,12	1.46	1 (10%)	10,16,16	1.76	3 (30%)
3	COU	A	1365	-	10,12,12	1.15	0	10,16,16	2.26	3 (30%)
4	SO4	A	1366	-	4,4,4	0.12	0	6,6,6	0.07	0
4	SO4	A	1367	-	4,4,4	0.23	0	6,6,6	0.22	0
4	SO4	A	1368	-	4,4,4	0.16	0	6,6,6	0.08	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
2	FNR	A	1361	-	-	0/16/18/18	0/3/3/3
3	COU	A	1362	-	-	0/0/0/0	0/2/2/2
3	COU	A	1363	-	-	0/0/0/0	0/2/2/2
3	COU	A	1364	-	-	0/0/0/0	0/2/2/2
3	COU	A	1365	-	-	0/0/0/0	0/2/2/2
4	SO4	A	1366	-	-	0/0/0/0	0/0/0/0
4	SO4	A	1367	-	-	0/0/0/0	0/0/0/0
4	SO4	A	1368	-	-	0/0/0/0	0/0/0/0

All (6) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	1361	FNR	C4-N3	-5.60	1.28	1.36
2	A	1361	FNR	C2-N1	-4.23	1.29	1.38
3	A	1362	COU	C2-C1	2.11	1.41	1.37
2	A	1361	FNR	C9-C9A	2.65	1.46	1.40
3	A	1364	COU	O1-C1	3.27	1.29	1.23
2	A	1361	FNR	C6-C5A	3.37	1.48	1.39

All (15) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	1361	FNR	C4A-CAA-N10	-4.49	117.29	120.49
3	A	1365	COU	C8-C9-C4	-4.36	118.81	123.11
2	A	1361	FNR	C4A-N5-C5A	-3.32	117.47	122.92
3	A	1364	COU	C8-C9-C4	-3.28	119.88	123.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	1363	COU	C8-C9-C4	-2.93	120.22	123.11
2	A	1361	FNR	C1'-N10-C9A	2.37	120.52	118.35
3	A	1364	COU	C3-C4-C9	2.43	119.47	116.59
3	A	1363	COU	C5-C4-C9	2.50	119.55	116.59
3	A	1365	COU	C3-C4-C9	2.53	119.59	116.59
3	A	1363	COU	C3-C4-C9	2.70	119.79	116.59
3	A	1362	COU	C3-C4-C9	2.95	120.09	116.59
2	A	1361	FNR	CAA-C4A-N5	3.16	122.41	117.73
3	A	1364	COU	C5-C4-C9	3.20	120.38	116.59
2	A	1361	FNR	C2-N1-CAA	4.17	118.92	114.90
3	A	1365	COU	C5-C4-C9	4.28	121.66	116.59

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	1361	FNR	1	0

4.7 Other polymers [i](#)

There are no such residues in this entry.

4.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

5 Fit of model and data [i](#)

5.1 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, 95th 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 ²)	Q<0.9
1	A	359/365 (98%)	-0.57	4 (1%) 80 76	7, 12, 25, 42	0

All (4) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	345[A]	GLU	4.7
1	A	273	ASP	2.6
1	A	2[A]	SER	2.5
1	A	122	ASP	2.5

5.2 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

5.3 Carbohydrates [i](#)

There are no carbohydrates in this entry.

5.4 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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. The B-factors column lists the minimum, median, 95th 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	LLDF	B-factors(Å ²)	Q<0.9
3	COU	A	1365	11/11	0.87	0.12	10.95	22,30,39,49	17

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
3	COU	A	1362	11/11	0.95	0.16	3.86	9,12,17,20	17
3	COU	A	1364	11/11	0.90	0.16	3.76	25,32,42,44	17
3	COU	A	1363	11/11	0.95	0.09	3.50	15,23,31,35	17
4	SO4	A	1368	5/5	0.95	0.11	0.65	44,47,51,52	5
2	FNR	A	1361	31/31	0.99	0.07	0.10	8,9,12,13	0
4	SO4	A	1367	5/5	0.98	0.11	-0.49	26,31,34,46	5
4	SO4	A	1366	5/5	0.99	0.09	-	23,26,33,35	0

5.5 Other polymers [i](#)

There are no such residues in this entry.