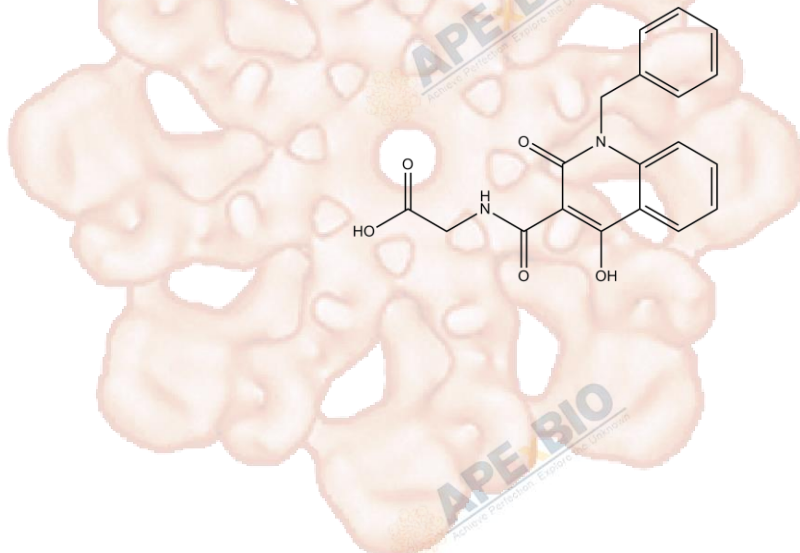


# Product Data Sheet

## IOX2(Glycine)

<b>Cat. No.:</b>	A4189
<b>CAS No.:</b>	931398-72-0
<b>Formula:</b>	C19H16N2O5
<b>M.Wt:</b>	352.34
<b>Synonyms:</b>	
<b>Target:</b>	Angiogenesis
<b>Pathway:</b>	HIF
<b>Storage:</b>	Store at -20°C



## Solvent & Solubility

insoluble in EtOH; insoluble in H<sub>2</sub>O; ≥17.6 mg/mL in DMSO

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	<b>Concentration</b>			
	<b>1 mM</b>	2.8382 mL	14.1908 mL	28.3817 mL
	<b>5 mM</b>	0.5676 mL	2.8382 mL	5.6763 mL
	<b>10 mM</b>	0.2838 mL	1.4191 mL	2.8382 mL

Please refer to the solubility information to select the appropriate solvent.

## Biological Activity

Shortsummary: HIF-1α prolyl hydroxylase-2 (PHD2) inhibitor

IC<sub>50</sub> & Target: 21 nM (PHD2)

In Vitro

### Cell Viability Assay

Cell Line:	RCC4 cells
Preparation method:	The solubility of this compound in DMSO is > 10 mM. General tips for obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20 °C for several months.
Reacting conditions:	50 μM

	Applications:	In RCC4 cells, IOX2 inhibited HIF-1 $\alpha$ hydroxylation at 50 $\mu$ M.
In Vivo	<b>Animal experiment</b>	
	Applications:	

## Product Citations

1. LUKE ERBER. "Functional Proteomics Analysis To Discover And Characterize Oxygen-Dependent Cellular Pathways." UNIVERSITY OF MINNESOTA. 2019.
2. Zhou T, Erber L, et al. "Proteomic analysis reveals diverse proline hydroxylation-mediated oxygen-sensing cellular pathways in cancer cells." Oncotarget. 2016 Nov 29;7(48):79154-79169.PMID:27764789

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## References

- [1]. Murray JK1, Balan C, Allgeier AM et al. Dipeptidyl-quinolone derivatives inhibit hypoxia inducible factor-1 $\alpha$  prolyl hydroxylases-1, -2, and -3 with altered selectivity. J Comb Chem. 2010 Sep 13;12(5):676-86.

## Caution

**FOR RESEARCH PURPOSES ONLY.**

**NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.**

*Specific storage and handling information for each product is indicated on the product datasheet. Most APEX<sup>®</sup>BIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.*

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