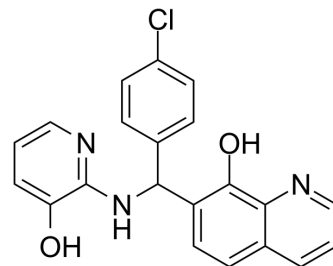


## Adaptaquin

<b>Cat. No.:</b>	HY-101449		
<b>CAS No.:</b>	385786-48-1		
<b>Molecular Formula:</b>	C <sub>21</sub> H <sub>16</sub> ClN <sub>3</sub> O <sub>2</sub>		
<b>Molecular Weight:</b>	377.82		
<b>Target:</b>	HIF/HIF Prolyl-Hydroxylase		
<b>Pathway:</b>	Metabolic Enzyme/Protease		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (264.68 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.6468 mL	13.2338 mL	26.4676 mL
	5 mM	0.5294 mL	2.6468 mL	5.2935 mL
	10 mM	0.2647 mL	1.3234 mL	2.6468 mL

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

### BIOLOGICAL ACTIVITY

#### Description

Adaptaquin is an inhibitor of hypoxia-inducible factor prolyl hydroxylase 2 (HIF-PHD2), with an IC<sub>50</sub> of 2 μM. Adaptaquin can inhibit lipid peroxidation and maintain mitochondrial function<sup>[1][2]</sup>.

#### IC<sub>50</sub> & Target

IC<sub>50</sub>: 2 μM (HIF-PHD2)<sup>[1]</sup>

### REFERENCES

[1]. Smirnova NA, et, al. Utilization of an in vivo reporter for high throughput identification of branched small molecule regulators of hypoxic adaptation. Chem Biol. 2010 Apr 23;17(4):380-91.

[2]. Neiteemeier S, et, al. Inhibition of HIF-prolyl-4-hydroxylases prevents mitochondrial impairment and cell death in a model of neuronal oxytosis. Cell Death Dis. 2016 May 5;7(5):e2214.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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