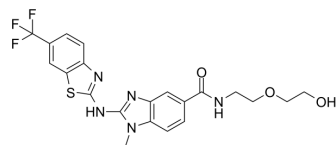


## HPPE

<b>Cat. No.:</b>	HY-153040
<b>CAS No.:</b>	1325721-55-8
<b>Molecular Formula:</b>	C <sub>21</sub> H <sub>20</sub> F <sub>3</sub> N <sub>5</sub> O <sub>3</sub> S
<b>Molecular Weight:</b>	479.48
<b>Target:</b>	Mitochondrial Metabolism
<b>Pathway:</b>	Metabolic Enzyme/Protease
<b>Storage:</b>	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



## SOLVENT & SOLUBILITY

### In Vitro

DMSO : 125 mg/mL (260.70 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.0856 mL	10.4280 mL	20.8559 mL
	5 mM	0.4171 mL	2.0856 mL	4.1712 mL
	10 mM	0.2086 mL	1.0428 mL	2.0856 mL

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

## BIOLOGICAL ACTIVITY

### Description

HPPE (compound 236) is a potential Bach1 inhibitor. Bach1 is a transcription factor of the cap'n'collar type alkaline region leucine zipper factor family (CNC-bZip) that regulates mitochondrial metabolism and reduces glucose utilization. HPPE can be used for research in psoriasis, multiple sclerosis, and COPD<sup>[1][2]</sup>.

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

Bach1<sup>[1]</sup>

## REFERENCES

- [1]. Attucks, et al. Bach 1 inhibitors in combination with Nrf2 activators and pharmaceutical compositions thereof. World Intellectual Property Organization, WO2016089648 A1 2016-06-09.
- [2]. Zhang X, et al. Bach1: Function, Regulation, and Involvement in Disease. *Oxid Med Cell Longev*. 2018 Oct 2;2018:1347969.
- [3]. Ahuja M, et al. Bach1 derepression is neuroprotective in a mouse model of Parkinson's disease. *Proc Natl Acad Sci U S A*. 2021 Nov 9;118(45):e2111643118.

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

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