hCAII-IN-8

Cat. No.: HY-152140

CAS No.: 952306-80-8

Molecular Formula: $C_{15}H_{16}N_2O_5S$

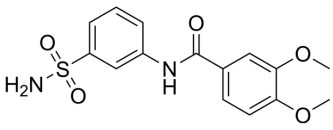
Molecular Weight: 336.36

Target: Carbonic Anhydrase

Pathway: Metabolic Enzyme/Protease

Storage: 4°C, protect from light

* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (371.63 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.9730 mL	14.8650 mL	29.7301 mL
	5 mM	0.5946 mL	2.9730 mL	5.9460 mL
	10 mM	0.2973 mL	1.4865 mL	2.9730 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (6.18 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (6.18 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

hCAII-IN-8, an amide, is a highly selective carbonic anhydrase (CA) inhibitor with an IC_{50} value of 0.18 μM against hCA II[1].

IC_{50} & Target

hCA II
0.18 μM (IC_{50})

In Vitro

hCAII-IN-8 (compound 9; 100 μM; 24-48 h) has noncytotoxic on HEK-293 T cells (cell viability>90%) compared to the control [1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Zahid Hussain, et al. Synthesis and Evaluation of Amide and Thiourea Derivatives as Carbonic Anhydrase (CA) Inhibitors. ACS Omega. 2022 Dec 6;7(50):47251-47264.

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