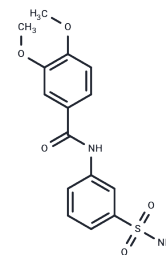


## hCAII-IN-8

## Chemical Properties

CAS No. :	952306-80-8
Formula:	C <sub>15</sub> H <sub>16</sub> N <sub>2</sub> O <sub>5</sub> S
Molecular Weight:	336.36
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	hCAII-IN-8 is a highly selective inhibitor of carbonic anhydrase (CA) with an IC <sub>50</sub> value of 0.18 μM for hCA II.
Targets(IC <sub>50</sub> )	Carbonic Anhydrase
In vivo	Compound CDy9 (100 μ M; 24-48 hours) exhibits no cytotoxicity to HEK-293 T cells, with cell viability>90% (versus control) [1].

## Solubility Information

Solubility	DMSO: 27.5 mg/mL (81.76 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.973 mL	14.865 mL	29.7301 mL
5 mM	0.5946 mL	2.973 mL	5.946 mL
10 mM	0.2973 mL	1.4865 mL	2.973 mL
50 mM	0.0595 mL	0.2973 mL	0.5946 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

## Reference

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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