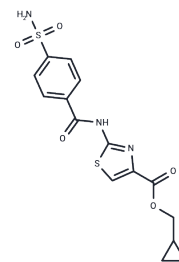


hCAI/II-IN-4

## Chemical Properties

CAS No. : 2480284-01-1  
 Formula: C<sub>15</sub>H<sub>15</sub>N<sub>3</sub>O<sub>5</sub>S<sub>2</sub>  
 Molecular Weight: 381.43  
 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	hCAI/II-IN-4 (compound 6d) is a potent inhibitor of both hCA I and hCA II enzymes, with $K_i$ values of 16.95 nM and 15.22 nM, respectively. It also inhibits hCA IX with a $K_i$ value of 27.04 nM, exhibits anti-hypoxia properties, and maintains low toxicity. This compound is suitable for investigating acute mountain sickness (AMS) in research studies [1].
Targets(IC <sub>50</sub> )	Others,Carbonic Anhydrase
In vitro	hCAI/II-IN-4 (compound 6d) (5-200 $\mu$ M; 48 hours) shows no significant cytotoxicity in HEK293 cells, maintaining cell viability above 60% at concentrations of 5, 25, 50, 100, and 200 $\mu$ M after 48 hours of incubation [1].
In vivo	Compound 6d (hCAI/II-IN-4) administered orally at doses ranging from 400 to 2000 mg/kg showed no apparent toxic effects in male BLAB/c hypoxic mice [1]. In this model, the treatment significantly increased survival time by 29.3% compared to the blank control group, indicating promising protective effects under hypoxic conditions without evident toxicity.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6217 mL	13.1086 mL	26.2171 mL
5 mM	0.5243 mL	2.6217 mL	5.2434 mL
10 mM	0.2622 mL	1.3109 mL	2.6217 mL
50 mM	0.0524 mL	0.2622 mL	0.5243 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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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