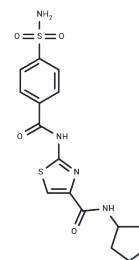


hCAI/II-IN-3

Chemical Properties

CAS No. : 2480283-93-8
 Formula: C₁₆H₁₈N₄O₅
 Molecular Weight: 394.47
 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-3 (compound 5b) is a highly effective dual inhibitor of hCA I/II enzymes, exhibiting K_i values of 51.25, 13.15, and 42.18 nM for hCA I, hCA II, and hCA IX, respectively. It demonstrates anti-hypoxic properties against acute mountain sickness (AMS) and exhibits low cellular activity [1].
Targets(IC ₅₀)	Others,Carbonic Anhydrase
In vitro	Compound 5b (hCAI/II-IN-3), administered at concentrations ranging from 5 to 200 μ M for a 48-hour period to HEK293T cells, exhibited no significant cytotoxic effects. This observation was confirmed using a Cell Cytotoxicity Assay conducted on embryonic kidney (HEK293T) cells across the specified concentration and incubation parameters, reinforcing the compound's lack of apparent cytotoxicity.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.535 mL	12.6752 mL	25.3505 mL
5 mM	0.507 mL	2.535 mL	5.0701 mL
10 mM	0.2535 mL	1.2675 mL	2.535 mL
50 mM	0.0507 mL	0.2535 mL	0.507 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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