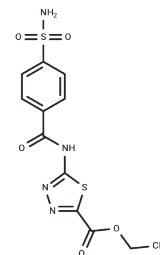


hCAI/II-IN-2

Chemical Properties

CAS No. : 2480283-75-6
 Formula: C₁₂H₁₂N₄O₅S₂
 Molecular Weight: 356.38
 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-2 (compound 2b) is a highly effective dual inhibitor of human carbonic anhydrase I and II (hCA I/II), with K_i values of 40.97 nM for hCA I, 15.15 nM for hCA II, and 61.88 nM for hCA IX. With its anti-hypoxic properties, hCAI/II-IN-2 demonstrates activity against acute mountain sickness (AMS) and exhibits low cellular activity [1].
Targets(IC50)	Others,Carbonic Anhydrase
In vitro	'hCAI/II-IN-2 (compound 2b) (5-200 μ M, 48 hours; HEK293T cells) exhibited no significant cytotoxic effects on HEK293T cells [1]. This was determined through a Cell Cytotoxicity Assay conducted on the embryonic kidney (HEK293T) cell line with compound concentrations ranging from 5 to 200 μ M over a 48-hour incubation period, demonstrating no apparent cytotoxicity [1].'
In vivo	In an animal model study using male BLAB/c mice [1], the oral administration of a chemical compound at a dosage of 400 mg/kg over 14 days resulted in a 21.7% increase in survival time compared to the blank control group.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.806 mL	14.030 mL	28.0599 mL
5 mM	0.5612 mL	2.806 mL	5.612 mL
10 mM	0.2806 mL	1.403 mL	2.806 mL
50 mM	0.0561 mL	0.2806 mL	0.5612 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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