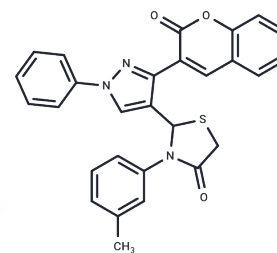


hCAIX-IN-10

Chemical Properties

CAS No. :	2497504-72-8
Formula:	C ₂₈ H ₂₁ N ₃ O ₃ S
Molecular Weight:	479.55
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	hCAIX-IN-10 is a selective human carbonic anhydrase IX (hCA IX) inhibitor (K _i = 7.1 nM). It disrupts tumor pH regulation to inhibit proliferation and metastasis in hypoxic cancer research.
Targets(IC ₅₀)	Carbonic Anhydrase
In vitro	hCAIX-IN-10 effectively inhibits carbonic anhydrase activity (0.1 nM-0.1 mM) with higher selectivity for hCA IX over hCA XII [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0853 mL	10.4264 mL	20.8529 mL
5 mM	0.4171 mL	2.0853 mL	4.1706 mL
10 mM	0.2085 mL	1.0426 mL	2.0853 mL
50 mM	0.0417 mL	0.2085 mL	0.4171 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

Furet P, et al. Identification of a new chemical class of potent angiogenesis inhibitors based on conformational considerations and database searching. *Bioorg Med Chem Lett.* 2003;13(18):2967-2971.

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