

hCAIX/XII-IN-13

Chemical Properties

CAS No. :

Formula: C₂₅H₁₆N₆O₆S

Molecular Weight: 528.5

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/XII-IN-13 functions as an inhibitor targeting specific human carbonic anhydrases (hCA) IX and XII, crucial in tumor-related processes. Demonstrating efficacy, this compound offers inhibitory K _i values of 0.08 μM for IX and 0.06 μM for XII. Additionally, under hypoxic conditions, hCAIX/XII-IN-13 enhances the effectiveness of Doxorubicin on MCF-7 cells by promoting G2/M phase cell cycle arrest and increasing apoptosis.
Targets(IC50)	Apoptosis

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8921 mL	9.4607 mL	18.9215 mL
5 mM	0.3784 mL	1.8921 mL	3.7843 mL
10 mM	0.1892 mL	0.9461 mL	1.8921 mL
50 mM	0.0378 mL	0.1892 mL	0.3784 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

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