

hCAIX/XII-IN-1

Chemical Properties

CAS No. :

Formula: C19H11NO5S2

Molecular Weight: 397.42

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-1, a potent inhibitor of both CAIX and CAXII, exhibits KI values of 0.48 μM for CAIX and 0.83 μM for CAXII, respectively. This compound demonstrates antiproliferative activity in vitro and induces apoptosis in MCF-7 cells [1].
Targets(IC50)	Apoptosis,Others,Carbonic Anhydrase
In vitro	hCAIX/XII-IN-1, also referred to as compound 11a, demonstrates antiproliferative effects at various concentrations (3.125, 6.25, 12.5, 25, 50 μM over 48 hours) with an IC50 value of 0.48 μM in MCF-7 cells. Additionally, at a concentration of 0.48 μM over 24 hours, it significantly increases the sub-G1 phase cell populations, indicating a disruption in cell cycle progression. Furthermore, at the same concentration, hCAIX/XII-IN-1 induces apoptosis in MCF-7 cells, confirming its efficacy in promoting cell death. These observations were confirmed through cell proliferation assay, cell cycle analysis, and apoptosis analysis, underscoring the compound's potential as a therapeutic agent [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5162 mL	12.5811 mL	25.1623 mL
5 mM	0.5032 mL	2.5162 mL	5.0325 mL
10 mM	0.2516 mL	1.2581 mL	2.5162 mL
50 mM	0.0503 mL	0.2516 mL	0.5032 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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