

hCAIX-IN-15

Chemical Properties

CAS No. :	2849348-43-0
Formula:	C ₁₈ H ₁₄ FN ₇ O ₂ S
Molecular Weight:	411.41
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-15, a potent inhibitor of human carbonic anhydrase IX (hCA IX), has an inhibition constant (K _i) of 38.8 nM and exhibits broad-spectrum anticancer activity suitable for cancer research [1].
Targets(IC50)	Carbonic Anhydrase
In vitro	Compound 12i, designated as hCAIX-IN-15, exhibits potent cytotoxic effects after a 48-hour exposure on renal cancer (UO-31), breast cancer (MDA-MB-468), and non-small cell lung cancer (HOP-92) cell lines, with growth inhibition (GI%) values of 20%, 17%, and 16%, respectively [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4307 mL	12.1533 mL	24.3067 mL
5 mM	0.4861 mL	2.4307 mL	4.8613 mL
10 mM	0.2431 mL	1.2153 mL	2.4307 mL
50 mM	0.0486 mL	0.2431 mL	0.4861 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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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481