

EGFR/COX-2-IN-1

Chemical Properties

CAS No. :

Formula: C20H17FN6O2S2

Molecular Weight: 456.52

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	EGFR/COX-2-IN-1 is an EGFR/COX-2 inhibitor that effectively targets EGFRWT, EGFR790M, COX-1, and COX-2 with IC50 values of 0.12, 0.076, 20.1, and 1.52 μ M, respectively. It inhibits MCF-7, HT-29, and A-549 cells with IC50 values of 1.20, 5.14, and 14.81 μ M, respectively. The compound induces apoptosis by upregulating Bax protein and downregulating Bcl-2 protein levels. Additionally, EGFR/COX-2-IN-1 significantly increases the proportion of cells in the G2/M phase in MCF-7 cells, demonstrating a broad-spectrum antitumor effect.
Targets(IC50)	Apoptosis,EGFR,COX

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1905 mL	10.9524 mL	21.9048 mL
5 mM	0.4381 mL	2.1905 mL	4.381 mL
10 mM	0.219 mL	1.0952 mL	2.1905 mL
50 mM	0.0438 mL	0.219 mL	0.4381 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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