

PI3K-IN-41

Chemical Properties

CAS No. :

Formula: C45H39F2N5O12S

Molecular Weight: 911.88

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	PI3K-IN-41 (compound 2), a photocaged PI3K inhibitor (IC ₅₀ =18.92 nM) with anticancer properties, demonstrates potent PI3K inhibition following UV light irradiation and has been shown to enhance antitumor effects [1]. This compound has potential for use in precisely controlled cancer therapeutics.
Targets(IC ₅₀)	PI3K
In vitro	PI3K-IN-41 (compound 2) at a concentration of 10 nM reduces AKT phosphorylation in HGC-27 cells and inhibits colony formation in HGC-27 cells at concentrations ranging from 1-10 μM following ultraviolet irradiation for 5, 15, and 30 minutes [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.0966 mL	5.4832 mL	10.9664 mL
5 mM	0.2193 mL	1.0966 mL	2.1933 mL
10 mM	0.1097 mL	0.5483 mL	1.0966 mL
50 mM	0.0219 mL	0.1097 mL	0.2193 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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