

IGF2BP1-IN-1

Chemical Properties

CAS No. : 3029447-08-0

Formula: C42H52FN3O10

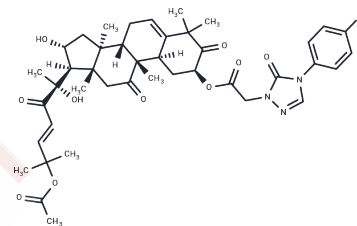
Molecular Weight: 777.87

Storage:

Keep away from direct sunlight, Store at low temperature

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	IGF2BP1-IN-1 is a highly efficient IGF2BP1 inhibitor with anti-cancer and anti-proliferative activities. It binds to insulin-like growth factor 2 mRNA-binding protein 1 (IGF2BP1) and inhibits tumor growth. It can be used for research on lung cancer.
Targets(IC50)	IGF-2R,IGF-1R
In vitro	IGF2BP1-IN-1 binds to IGF2BP1 protein with a KD value of 2.88 nM.IGF2BP1-IN-1 inhibited the proliferation of cancer cells with an IC50 of 9 nM for A549 cells and 34 nM for HCT116 cells. [1]

Solubility Information

Solubility	DMSO: 80 mg/mL (102.84 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.2856 mL	6.4278 mL	12.8556 mL
5 mM	0.2571 mL	1.2856 mL	2.5711 mL
10 mM	0.1286 mL	0.6428 mL	1.2856 mL
50 mM	0.0257 mL	0.1286 mL	0.2571 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.

Reference

Shang FF, et al. Discovery of Triazolyl Derivatives of Cucurbitacin B Targeting IGF2BP1 against Non-Small Cell Lung Cancer. J Med Chem. 2023 Sep 28;66(18):12931-12949.

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