

HJ445A

Chemical Properties

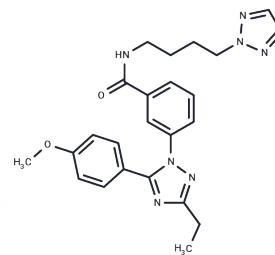
CAS No. : 3032441-59-8

Formula: C₂₄H₂₇N₇O₂

Molecular Weight: 445.52

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

HJ445A is a highly efficient and selective MYOF inhibitor with excellent water solubility, utilized for the treatment of gastric cancer. In gastric cancer cells MGC803 and MKN45, HJ445A exhibits significant antiproliferative properties with IC₅₀ values of 0.16 μM and 0.14 μM, respectively. The compound binds to the MYOF-C2D domain with a KD value of 0.17 μM and hinders the migration of gastric cancer cells by reversing the epithelial-mesenchymal transition (EMT) process. It also inhibits colony formation in MKN45 cells in a concentration-dependent manner. Remarkably, compared to compound 6y, HJ445A's water solubility is improved by approximately 170 times. Moreover, HJ445A demonstrates superior antitumor effects in vivo.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2446 mL	11.2228 mL	22.4457 mL
5 mM	0.4489 mL	2.2446 mL	4.4891 mL
10 mM	0.2245 mL	1.1223 mL	2.2446 mL
50 mM	0.0449 mL	0.2245 mL	0.4489 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