

FD2056

## Chemical Properties

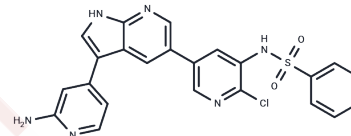
CAS No. : 2685870-87-3

Formula: C<sub>23</sub>H<sub>17</sub>ClN<sub>6</sub>O<sub>2</sub>S

Molecular Weight: 476.94

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	FD2056 is a potent, orally active PI3K inhibitor, with IC <sub>50</sub> values of 0.30, 0.80, 1.10, and 0.42 nM against PI3K $\alpha$ , PI3K $\beta$ , PI3K $\gamma$ , and PI3K $\delta$ , respectively. Additionally, it exhibits inhibitory effects on CDK2-CyclinA2 and CDK4-CyclinD3 with IC <sub>50</sub> s of 115.95 nM and 2782.15 nM. FD2056 effectively inhibits the proliferation of various breast cancer cell lines, such as MDA-MB-231, MDA-MB-468, and MCF-7, with IC <sub>50</sub> s of 1.06 $\mu$ M, 0.04 $\mu$ M, and 1.40 $\mu$ M, respectively. The compound also promotes apoptosis in cancerous cells and has been shown to suppress tumor growth [1].
Targets(IC <sub>50</sub> )	PI3K

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0967 mL	10.4835 mL	20.967 mL
5 mM	0.4193 mL	2.0967 mL	4.1934 mL
10 mM	0.2097 mL	1.0483 mL	2.0967 mL
50 mM	0.0419 mL	0.2097 mL	0.4193 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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