

## PI3K/HDAC-IN-4

## Chemical Properties

CAS No. :

Formula: C28H35F3N12O3

Molecular Weight:

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/HDAC-IN-4 (Compound 31f) is a dual inhibitor targeting PI3K and HDAC, with an IC50 of 0.2µM. It demonstrates high selectivity for HDAC1-3, with IC50 values of 75.5 nM, 70.9 nM, and 1.9 nM, respectively. As a potent pan-PI3K inhibitor, PI3K/HDAC-IN-4 has IC50 values of 2.5 nM, 80.5 nM, 10.0 nM, and 57.2 nM for PI3K $\alpha$ , $\beta$ , $\delta$ , and $\gamma$ , respectively. This compound effectively induces apoptosis in tumor cells by concurrently inhibiting the PI3K/AKT/mTOR signaling pathway and HDAC1-3. It shows significant antiproliferative activity across various tumor cell lines, such as MV4-11, Jeko-1, HL60, and MCF-7, with IC50 values of 0.2, 0.9, 0.8, and 1.5 µM, respectively. PI3K/HDAC-IN-4 is applicable in the study of lymphoma and leukemia.
Targets(IC50)	Apoptosis,Akt,HDAC,mTOR,PI3K

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