

PI3K-IN-59

Chemical Properties

CAS No. :

Formula: C₂₅H₃₂FeN₆O₄

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-IN-59 (Compound 3d) is a PI3K inhibitor with an IC ₅₀ value of 17.44 μM. It demonstrates significant antiproliferative activity, showing potent inhibition against breast cancer 4T1 cells (IC ₅₀ : 3.70 μM), colon cancer CT26 cells (IC ₅₀ : 1.98 μM), and human breast cancer cells (IC ₅₀ : 19.72 μM). The compound operates through a dual antitumor mechanism by inhibiting PI3Kα enzymatic activity and inducing hydroxyl radical (•OH) generation via the Fenton reaction. PI3K-IN-59 shows promising efficacy against 4T1 tumors, making it suitable for synergistic targeting studies in breast and colon cancer.
Targets(IC ₅₀)	Reactive Oxygen Species,PI3K

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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