

STAT3-IN-44

Chemical Properties

CAS No. :

Formula:

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	STAT3-IN-44 is a potent STAT3 inhibitor with IC50 values of 1.84 μ M (C6 cells) and 4.81 μ M (A549 cells). It inhibits the phosphorylation of STAT3, downregulates Bcl-2 expression, and upregulates Caspase-3 expression, thereby promoting late-stage apoptosis. STAT3-IN-44 effectively suppresses tumor cell proliferation and migration and is applicable in research on cancers such as glioma and lung cancer.
Targets(IC50)	Apoptosis,Bcl-2 Family,Caspase,STAT
In vitro	STAT3-IN-44 (Compound 18q) at a concentration of 10 μ M, over 24 hours, significantly induces apoptosis in C6 cells through the STAT3-Bcl-2/Caspase-3 pathway. At concentrations ranging from 2.5 to 10 μ M over 10 days, it nearly completely inhibits colony formation of C6 cells at the 10 μ M concentration. Additionally, when used at 10 μ M for 24 hours, it significantly suppresses C6 cell migration. STAT3-IN-44, applied at 50 μ M and temperatures between 37-70°C, markedly enhances the thermal stability of STAT3 in C6 cells.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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