Data Sheet (Cat.No.T212266)

TargetMol

Apoptosis inducer 43

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	Apoptosis inducer43 is an agent that promotes apoptosis. It has the capability to induce apoptosis in HCT116 cells, cause cell cycle arrest at the SubG0-G1 phase, trigger secondary necrosis, and increase the expression of caspase-3, p53, and Bax/Bcl-2. This compound also inhibits tumor growth in solid Ehrlich carcinoma (SEC) mouse models. Apoptosis inducer43 is applicable for research in colon cancer, leukemia, non-small cell lung cancer, and other cancers.
Targets(IC50)	Apoptosis,Bcl-2 Family,Caspase,MDM-2/p53
In vitro	Apoptosis inducer 43 (Compound 5f) at a concentration of 10 μM demonstrates anticancer activity, achieving an average inhibition rate of over 80% in NCI 60 cell lines, which include leukemia, non-small cell lung cancer, colon cancer, CNS cancer, melanoma, ovarian cancer, renal cancer, prostate cancer, and breast cancer, with an average GI_{50} below 5 μM. Additionally, when used at 1.79-10 μM for 24 hours, it induces cell cycle arrest in the HCT-116 cells, primarily at the SubG0/G1 phase, and triggers apoptosis.
In vivo	Compound 5f, known as Apoptosis inducer 43, administered intraperitoneally at 10 mg/kg three times a week for 14 days, demonstrated antitumor activity in a solid Ehrlich carcinoma (SEC) mouse model.