Wnt/β-catenin-IN-1

Cat. No.: HY-157990

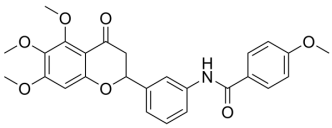
Molecular Formula: $C_{26}H_{25}NO_7$

Molecular Weight: 463.48

Target: Wnt; β-catenin

Pathway: Stem Cell/Wnt

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Wnt/β-catenin-in-1 (compounds 17) is a Wnt/β-catenin signaling pathway inhibitor. Wnt/β-catenin-IN-1 can induce apoptosis of colon cancer cells, has broad-spectrum anticancer activity, and can be used for the reseach of a variety of solid tumors[1].

In Vitro

Wnt/β-catenin-IN-1 (compounds 17) (10 μM, 48 h) has broad-spectrum anticancer activity, with an average growth inhibition rate of 81.9% against 52 tumor cell lines in the trial[1].

Wnt/β-catenin-IN-1 (compounds 17) (10 μM, 48 h) is less cytotoxic to normal human cell lines (CCD841, MRC5) and is somewhat selective to cancer cells[1].

Wnt/β-catenin-IN-1 (compounds 17) (0/0.5/1/2 μM, 24 h/48 h) dose-dependently triggers cell cycle arrest and increases the population of HCT116 colon cancer cells in G2/M cell cycle phase[1].

Wnt/β-catenin-IN-1 (compounds 17) (0/0.5/1/2 μM, 24 h) is dose-dependent in reducing CDK8 level in HCT colorectal cancer cells[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Viability Assay[1]

Cell Line:	HCT116, HCT15, HT29, KM12, SW620, KM12, COLO205, HCC2998, CCD841, MRC5, et al.
Concentration:	0.05 μM
Incubation Time:	48 h
Result:	Showed broad-spectrum anticancer activity, less toxicity to normal cells, and certain selectivity to cancer cells.

Cell Cycle Analysis[1]

Cell Line:	HCT116, HCT15, HT29, KM12, SW620, KM12, COLO205, HCC2998, CCD841, MRC5, et al.
Concentration:	0.05 μM
Incubation Time:	24 h
Result:	Triggered G2/M cell cycle arrest by activating the p53-p21 pathway.

REFERENCES

[1]. Hassan AHE, et al. Discovery of a stilbenoid-flavanone hybrid as an antitumor Wnt/β-catenin signaling pathway inhibitor. Bioorg Chem. 2024 Feb 5;145:107178.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA