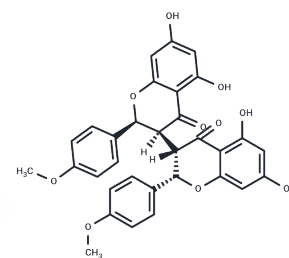


Chamaejasmenin B

Chemical Properties

CAS No. :	89595-71-1
Formula:	C32H26O10
Molecular Weight:	570.54
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	Chamaejasmenin B is a compound isolated from <i>Stellera chamaejasme</i> L. Chamaejasmenin B has anticancer and antitumor activity, inhibiting cancer cell migration and invasion, and inhibiting tumor metastasis. Chamaejasmenin B is used in the study of cancers such as breast cancer.
Targets(IC50)	Others
In vitro	Chamaejasmenin B exerted potent anti-proliferative effects in the 8 human solid tumor cell lines (HepG2, SMMC-7721, A549, MG63, U2OS, KHOS, HCT-116, and HeLa) with the IC50 values ranging from 1.08 to 10.8 $\mu\text{mol/L}$) values ranged from 3.07 to 15.97 $\mu\text{mol/L}$. In the most sensitive A549 and KHOS cells, the mechanisms underlying the antiproliferative effects were characterized. The two compounds induced prominent expression of the DNA damage marker $\gamma\text{-H2AX}$ as well as apoptosis. Furthermore, treatment of the cells with the two compounds caused prominent G(0)/G(1) phase arrest.[3]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7527 mL	8.7636 mL	17.5273 mL
5 mM	0.3505 mL	1.7527 mL	3.5055 mL
10 mM	0.1753 mL	0.8764 mL	1.7527 mL
50 mM	0.0351 mL	0.1753 mL	0.3505 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Li Q, et al. Chamaejasmenin B, an Inhibitor for Metastatic Outgrowth, Reversed M2-Dominant Macrophage Polarization in Breast Tumor Microenvironment. *Front Immunol.* 2021;12:774230.

Li Q, et al. Chamaejasmenin B, a novel candidate, inhibits breast tumor metastasis by rebalancing TGF-beta paradox. *Oncotarget.* 2016;7(30):48180-4819

Zhang C, Et al. In vitro anti-cancer activity of chamaejasmenin B and neochamaejasmin C isolated from the root of *Stellera chamaejasme* L. *Acta Pharmacol Sin.* 2013;34(2):262-270.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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