Product Data Sheet

Product Name: Jaceosidin
Cat. No.: GN10645

Chemical Properties

Cas. No.	18085-97-7		
Chemical Name	5,7-dihydroxy-2-(4-hydroxy-3-methoxyphenyl)-6-methoxychromen-4-one		
SMILES	COC1=C(C=CC(=C1)C2=CC(=O)C3=C(C(=C(C=C3O2)O)OC)O)O		
Formula	$C_{17}H_{14}O_7$	M.Wt	330.29
Solubility	≥ 33mg/mL in DMSO	Storage	
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	Jaceosidin		

Background

Jaceosidin is a flavonoid isolated from Artemisia vestita, induces apoptosis in cancer cells, activates Bax and down-regulates Mcl-1 and c-FLIP expression[1]. Jaceosidin exhibits anti-cancer[2], anti-inflammatory activities, decreases leves of inflammatory markers, and suppresses COX-2 expression and NF-κB activation[3].

Jaceosidin (30, 50, 75 μM) induces apoptosis in human renal carcinoma Caki cells after treatment for 24 h, shows no obvious effect on normal cells[1].Jaceosidin (75 μM) reduces MMP levels and causes cytochrome c release into the cytoplasm through Bax activation[1].Jaceosidin-mediated apoptosis is involved in downregulation of Mcl-1, c-FLIP expression, which is via inhibition of NF-κB and/or Sp1 transcriptional activity[1].Jaceosidin shows cytostatic activity to HES and HESC cells with IC50s of 52.68 and 55.10 μM, and is less cytotocxic on Hec1 A and KLE (IC50, 70.54, 147.14 μM, respectively), after treatment for 48 h[2].

Jaceosidin (10 and 20 mg/kg, p.o., once a day for 3 days) blocks carrageenan-induced

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increase in leukocyte number and protein levels in air pouch exudates in mice[3].Jaceosidin (10, 20 mg/kg, p.o.) suppresses COX-2 expression and NF-κB activation in mice[3].Jaceosidin (20 mg/kg, p.o. for 2 hours) reduces hind paw edema volume in rats[3].

References:

[1]. Woo SM, et al. Jaceosidin induces apoptosis through Bax activation and down-regulation of Mcl-1 and c-FLIP expression in human renal carcinoma Caki cells. Chem Biol Interact. 2016 Dec 25;260:168-175.
[2]. Lee JG, et al. Jaceosidin, isolated from dietary mugwort (Artemisia princeps), induces G2/M cell cycle arrest by inactivating cdc25C-cdc2 via ATM-Chk1/2 activation. Food Chem Toxicol. 2013 May;55:214-21.
[3]. Min SW, et al. Inhibitory effect of eupatilin and jaceosidin isolated from Artemisia princeps on carrageenan-induced inflammation in mice. J Ethnopharmacol. 2009 Sep 25;125(3):497-500.

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