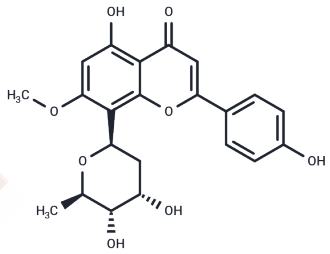
Data Sheet (Cat.No.T23615)

TargetMol

Aciculatin

Chemical Properties



CAS No. : 134044-97-6

Formula: C22H22O8

Molecular Weight: 414.41

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	Aciculatin is a natural compound.It also shows potent anti-cancer potency. Aciculatin treatment induces cell cycle arrest and apoptosis via inhibition of MDM2 expression without significant DNA damage and genome toxicity.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4131 mL	12.0653 mL	24.1307 mL
5 mM	0.4826 mL	2.4131 mL	4.8261 mL
10 mM	0.2413 mL	1.2065 mL	2.4131 mL
50 mM	0.0483 mL	0.2413 mL	0.4826 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

Yao CH, Tsai CH, Lee JC. Total Synthesis of the Naturally Occurring Glycosylflavone Aciculatin. J Nat Prod. 2016 Jul 22;79(7):1719-23. doi: 10.1021/acs.jnatprod.5b01051. Epub 2016 Jun 20. PubMed PMID: 27322193.

Lai CY, Tsai AC, Chen MC, Chang LH, Sun HL, Chang YL, Chen CC, Teng CM, Pan SL. Aciculatin induces p53-dependent apoptosis via MDM2 depletion in human cancer cells in vitro and in vivo. PLoS One. 2012;7(8):e42192. doi: 10.1371/journal.pone.0042192. Epub 2012 Aug 13. PubMed PMID: 22912688; PubMed Central PMCID: PMC3418269.

Shih KS, Wang JH, Wu YW, Teng CM, Chen CC, Yang CR. Aciculatin inhibits granulocyte colony-stimulating factor production by human interleukin 1β-stimulated fibroblast-like synoviocytes. PLoS One. 2012;7(7):e42389. doi: 10.1371/journal.pone.0042389. Epub 2012 Jul 31. PubMed PMID: 22860122; PubMed Central PMCID: PMC3409160.

Shen CC, Cheng JJ, Lay HL, Wu SY, Ni CL, Teng CM, Chen CC. Cytotoxic apigenin derivatives from Chrysopogon aciculatis. J Nat Prod. 2012 Feb 24;75(2):198-201. doi: 10.1021/np2007796. Epub 2012 Jan 24. PubMed PMID: 22272829.

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