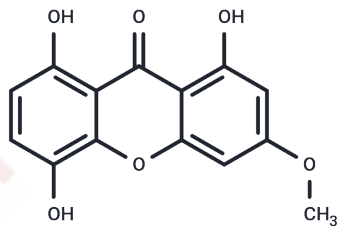
Data Sheet (Cat.No.T3822)

TargetMol

Bellidifolin

Chemical Properties



CAS No. : 2798-25-6

Formula: C14H10O6

Molecular Weight: 274.23

Storage: Keep away from direct sunlight
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	Bellidifolin (Bellidifoline) has anti-oxidation, hepatoprotective, anti-inflammatory and antitumor actions, it may contribute to the protective effects associated with nerve injury initiated by hypoxia by mechanisms related to inhibition of cell apoptosis independent of the ERK pathway. Bellidifolin shows interesting inhibitory activity of monoamine oxidases (MAO) A, it could be useful for treating type-2 diabetes, likely via the improvement of insulin resistance (IR). Bellidifolin also shows an antifungal effect (MIC values of 50 microg/mL).
Targets(IC50)	HIV Protease

Solubility Information

Solubility	DMSO: 25 mg/mL (91.16 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.6466 mL	18.2329 mL	36.4657 mL
5 mM	0.7293 mL	3.6466 mL	7.2931 mL
10 mM	0.3647 mL	1.8233 mL	3.6466 mL
50 mM	0.0729 mL	0.3647 mL	0.7293 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

Basnet, P., Kadota, S., Shimizu, M., Takata, Y., Kobayashi, M., & Namba, T. (1995). Bellidifolin Stimulates Glucose Uptake in Rat 1 Fibroblasts and Ameliorates Hyperglycemia in Streptozotocin (STZ)-Induced Diabetic Rats. Planta Medica, 61(05), 402-405. doi: 10.1055/s-2006-958124

Basnet, P., Kadota, S., Shimizu, M., & Namba, T. (1994). Bellidifolin: A Potent Hypoglycemic Agent in Streptozotocin (STZ)-Induced Diabetic Rats fromSwertia japonica. Planta Medica, 60(06), 507-511. doi: 10.1055/s-2006-959560

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