

5,7,3',4'-Tetrahydroxy-3-methoxy-8,5'-diprenylflavone

Chemical Properties

CAS No. : 1353676-65-9

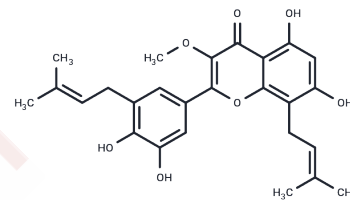
Formula: C₂₆H₂₈O₇

Molecular Weight: 452.5

Storage: Store at low temperature, 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	5,7,3',4'-Tetrahydroxy-3-methoxy-8,5'-diprenylflavone demonstrated a strong anti-proliferative effect on ER-positive breast cancer MCF-7 cells in vitro, with an IC ₅₀ value of 4.41 μM. It significantly down-regulated the expression of estrogen receptor-α (ER-α) and inhibited tumor growth in the BCAP-37 human breast cancer cell line xenograft model.
Targets(IC ₅₀)	Estrogen Receptor/ERR
In vitro	We found that 5,7,3',4'-tetrahydroxy-3-methoxy-8,5'-diprenylflavone showed potent anti-proliferation effects on ER-positive breast cancer MCF-7 cells in vitro (with an IC ₅₀ of 4.41 μM).[1]
In vivo	We found that 5,7,3',4'-tetrahydroxy-3-methoxy-8,5'-diprenylflavone strongly down-regulated expression concentrations of estrogen receptor-α (ER-α) and were able to inhibit tumor growth in a xenograft model of the human breast cancer line BCAP-37 in vivo.[1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2099 mL	11.0497 mL	22.0994 mL
5 mM	0.442 mL	2.2099 mL	4.4199 mL
10 mM	0.221 mL	1.105 mL	2.2099 mL
50 mM	0.0442 mL	0.221 mL	0.442 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

FujiangGuo, et al. Prenylflavone derivatives from *Broussonetia papyrifera*, inhibit the growth of breast cancer cells in vitro and in vivo. *Phytochemistry Letters*. 2013;6(3):331-336.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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