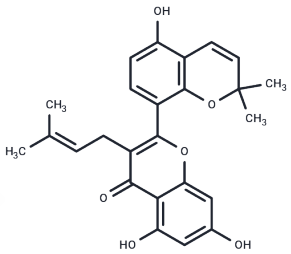
Data Sheet (Cat.No.TQ0301)

TargetMol

Kuwanon A

Chemical Properties



CAS No. : 62949-77-3

Formula: C25H24O6

Molecular Weight: 420.45

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	Kuwanon A inhibits nitric oxide production (IC50: 10.5 μM). Kuwanon A is a flavone derivative isolated from Morus alba L.
Targets(IC50)	NO Synthase
In vitro	Kuwanon A exhibits significant inhibitory activity on the differentiation of 3T3-L1 adipocytes, with triglyceride (TG) inhibition values of 47.1% [1].
Cell Research	RAW264.7 cells are treated with Kuwanon A (3, 10, 20, 30, 100 μM). Cell viability is measured using the MTT assay.

Solubility Information

Solubility	DMSO: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3784 mL	11.892 mL	23.784 mL
5 mM	0.4757 mL	2.3784 mL	4.7568 mL
10 mM	0.2378 mL	1.1892 mL	2.3784 mL
50 mM	0.0476 mL	0.2378 mL	0.4757 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

Yang ZG, et al. Inhibitory effects of constituents from Morus alba var. multicaulis on differentiation of 3T3-L1 cells and nitric oxide production in RAW264.7 cells. Molecules. 2011 Jul 19;16(7):6010-22.

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