

Sanggenon D

Chemical Properties

CAS No. : 81422-93-7

Formula: C₄₀H₃₆O₁₂

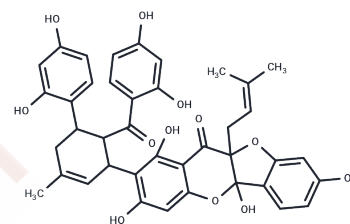
Molecular Weight: 708.71

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	Sanggenon D (Sanggenone D), a small molecule compound from Morus alba Bark, is a GABA(A) receptor modulator with antioxidant and antibacterial activity, inhibits breast cancer cell proliferation, and inhibits the growth of Staphylococcus aureus by modulating the fatty acid biosynthesis system.
Targets(IC50)	GABA Receptor, Antibiotic, Lipase
In vitro	Using tyrosine as substrate, the inhibitory activity of sanggenon D against tyrosinase was determined at 30 and 100 μM, with an IC50 value of 7.3 μM. [3]

Solubility Information

Solubility	DMSO: 50 mg/mL (70.55 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (2.82 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.411 mL	7.0551 mL	14.1101 mL
5 mM	0.2822 mL	1.411 mL	2.822 mL
10 mM	0.1411 mL	0.7055 mL	1.411 mL
50 mM	0.0282 mL	0.1411 mL	0.2822 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

Judith M Rollinger, et al. *Venturia inaequalis*-inhibiting Diels-Alder adducts from *Morus* root bark. *J Agric Food Chem.* 2006 Nov 1;54(22):8432-6.

Y S Chi, et al. Effects of naturally occurring prenylated flavonoids on enzymes metabolizing arachidonic acid: cyclooxygenases and lipoxygenases. *Biochem Pharmacol.* 2001 Nov 1;62(9):1185-91.

Lee NK, et al. Prenylated flavonoids as tyrosinase inhibitors. *Arch Pharm Res.* 2004 Nov;27(11):1132-5.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel: 781-999-4286 E_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481