

Macelignan

Chemical Properties

CAS No. : 107534-93-0

Formula: C₂₀H₂₄O₄

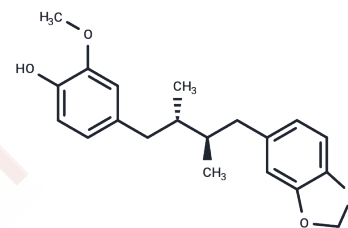
Molecular Weight: 328.40

Keep away from direct sunlight, Keep away from moisture

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	Macelignan (Anwuligan) is a lignan isolated from nutmeg with antimicrobial and anticariogenic activity against Streptococcus mutans and other streptococcus species.
Targets(IC50)	COX

Solubility Information

Solubility	DMSO: 135.00 mg/mL (411.08 mM), Sonication is recommended. Chloroform, Dichloromethane, Ethyl Acetate: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2.00 mg/mL (6.09 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	3.0451 mL	15.2253 mL	30.4507 mL
5 mM	0.609 mL	3.0451 mL	6.0901 mL
10 mM	0.3045 mL	1.5225 mL	3.0451 mL
50 mM	0.0609 mL	0.3045 mL	0.609 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 X, et al. [Selection of mobile phases for the determination of gamma-schisandrin and multi-active constituents in Schisandra chinensis and its preparations by high performance liquid chromatography].

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