

3'-Demethylnobiletin

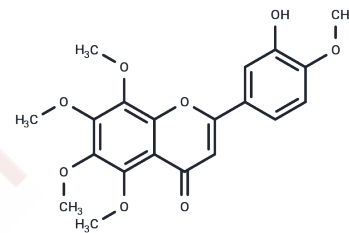
Chemical Properties

CAS No. : 112448-39-2

Formula: C₂₀H₂₀O₈

Molecular Weight: 388.37

Storage: Store at low temperature, Keep away from direct sunlight, Keep away from moisture
 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	3'-Demethylnobiletin has chemopreventive effects on colon carcinogenesis, it can significantly inhibit the growth of human colon cancer cells, cause cell-cycle arrest, induce apoptosis, and profoundly modulate signaling proteins related with cell proliferation and cell death.
Targets(IC50)	NF-κB, STAT, DNA/RNA Synthesis, Integrin, LDL, Lipoxigenase, Src
In vitro	3'-Demethylnobiletin significantly suppressed CD36 expression. The inhibitory effects of 3'-Demethylnobiletin toward TPA-induced SR mRNA expression are partly associated with the suppression of AP-1 and NF-κB transcriptional activities[1].

Solubility Information

Solubility	DMSO: 80 mg/mL (205.99 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: 3.3 mg/mL (8.5 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	2.5749 mL	12.8743 mL	25.7486 mL
5 mM	0.515 mL	2.5749 mL	5.1497 mL
10 mM	0.2575 mL	1.2874 mL	2.5749 mL
50 mM	0.0515 mL	0.2575 mL	0.515 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

Eguchi A, et al. Suppressive effects of demethylated metabolites of nobiletin on phorbol ester-induced expression of scavenger receptor genes in THP-1 human monocytic cells. *Biofactors*. 2007;31(2):107-16.

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