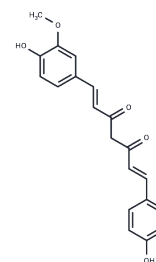


Demethoxycurcumin

Chemical Properties

CAS No. :	22608-11-3
Formula:	C ₂₀ H ₁₈ O ₅
Molecular Weight:	338.35
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	1. Demethoxycurcumin (Desmethoxycurcumin) has antioxidant activity. 2. Demethoxycurcumin has anti-inflammatory activity. 3. Demethoxycurcumin has anti-proliferative activity. 4. Demethoxycurcumin has anti-acanthamoebic effect. 5. Demethoxycurcumin is a potential additive natural product in combination with chemotherapeutic agents in drug-resistant cancers. 6. Demethoxycurcumin inhibits energy metabolic and oncogenic signaling pathways through AMPK activation in triple-negative breast cancer cells.
Targets(IC50)	Apoptosis, Antioxidant, Antibacterial, NO Synthase, Autophagy, Cholinesterase (ChE)

Solubility Information

Solubility	DMSO: 112.5 mg/mL (332.5 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: < 10 mg/mL (29.56 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (29.56 mM), Suspension. 10% DMSO+90% (20% SBE-β-CD in Saline): < 10 mg/mL (29.56 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+90% Corn oil: < 10 mg/mL (29.56 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. <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	2.9555 mL	14.7776 mL	29.5552 mL
5 mM	0.5911 mL	2.9555 mL	5.911 mL
10 mM	0.2956 mL	1.4778 mL	2.9555 mL
50 mM	0.0591 mL	0.2956 mL	0.5911 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

Shieh J M , Chen Y C , Lin Y C , et al. Demethoxycurcumin Inhibits Energy Metabolic and Oncogenic Signaling Pathways through AMPK Activation in Triple-Negative Breast Cancer Cells[J]. Journal of Agricultural and Food Chemistry, 2013, 61(26):6366-6375.

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