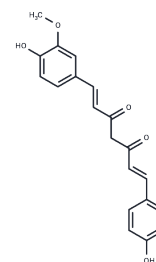


## Demethoxycurcumin

## Chemical Properties

CAS No. :	22608-11-3
Formula:	C <sub>20</sub> H <sub>18</sub> O <sub>5</sub>
Molecular Weight:	338.35
Appearance:	no data available
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year



## 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,Autophagy

## Solubility Information

Solubility	DMSO: 50 mg/mL (147.78 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## 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.

## 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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