

Demethoxy Curcumin-D4

Chemical Properties

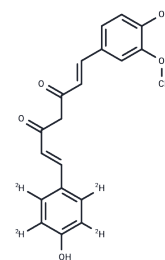
CAS No. :

Formula: C₂₀H₁₄D₄O₅

Molecular Weight: 342.38

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

Demethoxy Curcumin-D4 is a deuterated compound of Demethoxy Curcumin. Demethoxy Curcumin (T6S1683) has a CAS number of 22608-11-3. 1. Demethoxycurcumin 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.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9207 mL	14.6037 mL	29.2073 mL
5 mM	0.5841 mL	2.9207 mL	5.8415 mL
10 mM	0.2921 mL	1.4604 mL	2.9207 mL
50 mM	0.0584 mL	0.2921 mL	0.5841 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

1. 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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