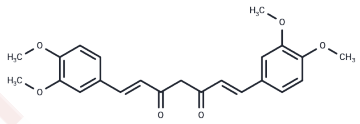
Data Sheet (Cat.No.T19853)

TargetMol

Dimethoxycurcumin

Chemical Properties



CAS No. : 160096-59-3

Formula: C23H24O6

Molecular Weight: 396.43

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	Dimethoxycurcumin (Veratrylcurcuminoid) is an analog of curcumin with more metabolical stability. Dimethoxycurcumin induces epigenetic changes in leukemia cells and the expression of promoter methylated genes.
Targets(IC50)	Others,NF-κB,NO Synthase

Solubility Information

Solubility	DMSO: 50 mg/mL (126.13 mM),Sonication is recommended. Ethanol: ≤ 0.25 mg/mL (insoluble or slightly soluble) dimethyl formamide: 10 mg/mL (25.23 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5225 mL	12.6126 mL	25.2251 mL
5 mM	0.5045 mL	2.5225 mL	5.045 mL
10 mM	0.2523 mL	1.2613 mL	2.5225 mL
50 mM	0.0505 mL	0.2523 mL	0.5045 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

Zhao H, Liu Q et al. In vitro additive antitumor effects of dimethoxycurcumin and 5-fluorouracil in colon cancer cells. Cancer Med. 2017 Jul;6(7):1698-1706.

Teymouri M, Barati N, Pirro M, Sahebkar A. Biological and pharmacological evaluation of dimethoxycurcumin: A metabolically stable curcumin analogue with a promising therapeutic potential. J Cell Physiol. 2018 Jan;233(1): 124-140.

Chen D, Dai F, Chen Z et al. Dimethoxy Curcumin Induces Apoptosis by Suppressing Survivin and Inhibits Invasion by Enhancing E-Cadherin in Colon Cancer Cells. Med Sci Monit. 2016 Sep 11;22:3215-22.

Hassan HE, Keita JA, Narayan L, Brady SM, Frederick R, Carlson S, Glass KC, Natesan S, Buttolph T, Fandy TE. The combination of dimethoxycurcumin with DNA methylation inhibitor enhances gene re-expression of promoter-methylated genes and antagonizes their cytotoxic effect. Epigenetics. 2016 Sep 2:1-10. [Epub ahead of print] PubMed PMID: 27588609; PubMed Central PMCID: PMC5094623.

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