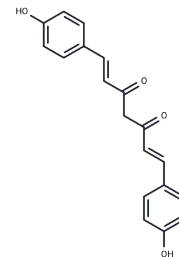


(1E,6E)-Bis(demethoxy)curcumin

Chemical Properties

CAS No. :	33171-05-0
Formula:	C19H16O4
Molecular Weight:	308.33
Storage:	Keep away from moisture, Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	(1E,6E)-Bis(demethoxy)curcumin (Curcumin III) is a natural demethoxy derivative of curcumin, with anti-inflammatory and anti-cancer activities.
Targets(IC50)	Apoptosis, Autophagy
In vivo	Bisdemethoxycurcumin (BDMC) is a minor constituent (approximately 3%) of curcuminoids that has been shown to be more stable than the other two main curcuminoids, that is, curcumin and demthoxycurcumin. BDMC has anti-tumor effects exerted through a multimechanistic mode of action involving inhibition of cell proliferation, invasion and migration, metastasis and tumour growth, and induction of apoptotic death in cancer cells[1].

Solubility Information

Solubility	DMSO: 31 mg/mL (100.54 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: 2 mg/mL (6.49 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	3.2433 mL	16.2164 mL	32.4328 mL
5 mM	0.6487 mL	3.2433 mL	6.4866 mL
10 mM	0.3243 mL	1.6216 mL	3.2433 mL
50 mM	0.0649 mL	0.3243 mL	0.6487 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

Ramezani M , Hatamipour M , Sahebkar A . Promising Anti-tumor properties of Bisdemethoxycurcumin: A Naturally Occurring Curcumin Analogue[J]. Journal of Cellular Physiology, 2017.

Jin Y, Chen X, Gao Z, et al. Bisdemethoxycurcumin alleviates vandetanib-induced cutaneous toxicity in vivo and in vitro through autophagy activation. Biomedicine & Pharmacotherapy. 2021, 144: 112297.

Meng, Fu, Shuilian, et al. Inhibitory effects of bisdemethoxycurcumin on mast cell-mediated allergic diseases.[J]. International immunopharmacology, 2018.

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