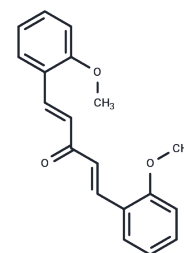


TFEB activator 1

Chemical Properties

CAS No. :	39777-61-2
Formula:	C ₁₉ H ₁₈ O ₃
Molecular Weight:	294.34
Storage:	Powder: -20°C for 3 years Actual storage temperature shall be subject to the COA.



Biological Description

Description	TFEB activator 1 (Curcumin analog compound C1) is an activator of transcription factor EB (TFEB) with promise for the prevention or treatment of Alzheimer's disease.
Targets(IC50)	Autophagy

Solubility Information

Solubility	DMSO: 127.5 mg/mL (433.17 mM),Sonication is recommended. Ethanol: 2 mg/mL (6.79 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 5 mg/mL (16.99 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	3.3974 mL	16.9872 mL	33.9743 mL
5 mM	0.6795 mL	3.3974 mL	6.7949 mL
10 mM	0.3397 mL	1.6987 mL	3.3974 mL
50 mM	0.0679 mL	0.3397 mL	0.6795 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

Song JX, et al. A novel curcumin analog binds to and activates TFEB in vitro and in vivo independent of MTOR inhibition. Autophagy. 2016 Aug 2;12(8):1372-89.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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