

## Euxanthone

## Chemical Properties

CAS No. : 529-61-3

Formula: C<sub>13</sub>H<sub>8</sub>O<sub>4</sub>

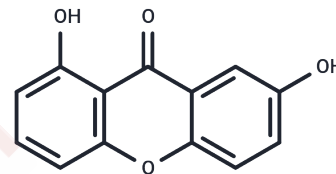
Molecular Weight: 228.2

Store at low temperature, Keep away from direct sunlight

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	Euxanthone (1,7-Dihydroxyxanthone), an xanthone derivative extracted from the roots of <i>Polygala tenuifolia</i> Willd, has antitumour, neuroprotective and vasorelaxant activities, and attenuates Aβ <sub>1-42</sub> -induced oxidative stress and apoptosis by inducing autophagy. SB-674042 is used for the treatment of depression. SB-674043 is used for the treatment of depression. SB-674044 is used for the treatment of depression. SB-674045 is used for the treatment of depression. 2A (BU-1) cell differentiation.
Targets(IC50)	Autophagy
In vitro	Euxanthone (10-20 μM; 24 h) inhibited cell adhesion, migration, and invasion in osteosarcoma cells. Furthermore, the suppression of COX-2 by euxanthone mediated its anti-metastatic activity. Euxanthone also regulated the expression of COX-2 through the miR-21/PDCD4/c-jun signaling pathway[1].
In vivo	BCCAO induces mitochondrial oxidative stress and leads to mitochondrial degradation, while administration of Euxanthone significantly attenuates BCCAO-induced mitochondrial stress and associated degradation. Euxanthone treatment (30-60 mg/kg; orally; once daily; for 7 days) normalizes Bnip3, Beclin1, Pink1, Parkin, p53, Bax, caspase-3, and LC3 II/I[2].

### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	4.3821 mL	21.9106 mL	43.8212 mL
5 mM	0.8764 mL	4.3821 mL	8.7642 mL
10 mM	0.4382 mL	2.1911 mL	4.3821 mL
50 mM	0.0876 mL	0.4382 mL	0.8764 mL

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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

Xiaodong Chen, et al. Euxanthone Impairs the Metastatic Potential of Osteosarcoma by Reducing COX-2 Expression. *Anat Rec (Hoboken)*. 2019 Aug;302(8):1399-1408.

Wei Sun, et al. Euxanthone improves cognitive impairment by attenuating mitochondrial fragmentation and suppressing oxidative stress. *Cent Eur J Immunol*. 2021;46(4):446-455.

aicheng Yuan, et al. Euxanthone Attenuates A $\beta$ 1-42-Induced Oxidative Stress and Apoptosis by Triggering Autophagy. *J Mol Neurosci*. 2018 Dec;66(4):512-523.

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