

2-5-dihydroxyacetophenone

Chemical Properties

CAS No.:	490-78-8
Formula:	C ₈ H ₈ O ₃
Molecular Weight:	152.14
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	<p>1. 2, 5-Dihydroxyacetophenone possess anti-anxiety, and neuroprotective qualities. 2. 2, 5-Dihydroxyacetophenone treatment can induce a sustained activation of JNK, ERK1/2, and p38 MAPKs, it also can potentiate the pro-apoptotic and anti-proliferative effects of bortezomib in U266 cells. 3. 2, 5-Dihydroxyacetophenone has anti-inflammatory activity in activated macrophages, raising the possibility that this compound has a therapeutic potential for inflammatory conditions. 4. 2, 5-Dihydroxyacetophenone is an uncompetitive inhibitor of murine tyrosinase (K(I) 0.28mm), it strongly inhibits both melanogenesis and cellular tyrosinase activity in vitro in 3-isobutyl-1-methylxanthin-stimulated B16 mouse melanoma cells or in vivo in zebrafish and mouse models.</p>
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Solubility Information

Solubility	<p>DMSO: 28 mg/mL(184 mM) Chloroform, Dichloromethane, Ethyl Acetate, Acetone, etc.: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)</p>
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.573 mL	32.864 mL	65.729 mL
5 mM	1.315 mL	6.573 mL	13.146 mL
10 mM	0.657 mL	3.286 mL	6.573 mL
50 mM	0.131 mL	0.657 mL	1.315 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Han Y , Jung H W , Lee J Y , et al. 2,5-Dihydroxyacetophenone Isolated from Rehmanniae Radix Preparata Inhibits Inflammatory Responses in Lipopolysaccharide-Stimulated RAW264.7 Macrophages[J]. Journal of Medicinal Food, 2012, 15(6):505-510.

Inhibitors · Natural Compounds · Compound Libraries

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