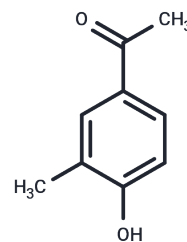


4'-Hydroxy-3'-methylacetophenone

Chemical Properties

CAS No. :	876-02-8
Formula:	C ₉ H ₁₀ O ₂
Molecular Weight:	150.18
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	4'-Hydroxy-3'-methylacetophenone is a phenolic volatile natural product isolated from raw coffee beans (<i>Coffea Arabica</i> L.) in Hawaii. 4'-Hydroxy-3'-methylacetophenone exhibits potent antioxidant activity, comparable to that of other phenolic volatile compounds such as thymol and eugenol. 4'-Hydroxy-3'-methylacetophenone is a key intermediate in organic synthesis and can be used to construct heterocyclic compounds with anti-mycobacterial activity.
Targets(IC50)	Antibacterial

Solubility Information

Solubility	DMSO: 80 mg/mL (532.69 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.6587 mL	33.2934 mL	66.5868 mL
5 mM	1.3317 mL	6.6587 mL	13.3174 mL
10 mM	0.6659 mL	3.3293 mL	6.6587 mL
50 mM	0.1332 mL	0.6659 mL	1.3317 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

Lee KG, et, al. Analysis of volatile components isolated from Hawaiian green coffee beans (*Coffea arabica* L.). *Flavour and Fragrance Journal*. 2002 Sep; 17 (5): 349-351.

YAR MS, et, al. Synthesis and antimycobacterial activity of novel heterocycles. *J. Serb. Chem. Soc.* 72 (1) 5-11 (2007).

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