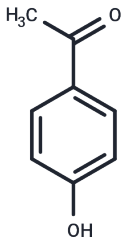
Data Sheet (Cat.No.T3750)

TargetMol

4-Hydroxyacetophenone

Chemical Properties



CAS No. : 99-93-4

Formula: C8H8O2

Molecular Weight: 136.15

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-Hydroxyacetophenone (4-Acetylphenol) is a potent xanthine oxidase inhibitor.
Targets(IC50)	HBV,Myosin,Xanthine Oxidase

Solubility Information

Solubility	DMSO: 250 mg/mL (1836.21 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 10 mg/mL (73.45 mM),Solution. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (14.69 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	7.3448 mL	36.7242 mL	73.4484 mL
5 mM	1.469 mL	7.3448 mL	14.6897 mL
10 mM	0.7345 mL	3.6724 mL	7.3448 mL
50 mM	0.1469 mL	0.7345 mL	1.469 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

Chu YH,et al.Inhibition of xanthine oxidase by Rhodiola crenulata extracts and their phytochemicals. 2014 Apr 30; 62(17):3742-9.

Tibbetts Km,et al.Controlling dissociation of alkyl phenyl ketone radical cations in the strong-field regime through hydroxyl substitution position. 2014 Sep 18;118(37).8170-6.

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