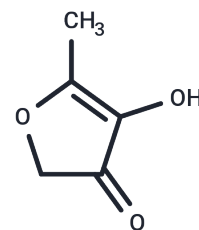


4-Hydroxy-5-methyl-3-furanone

Chemical Properties

CAS No. :	19322-27-1
Formula:	C ₅ H ₆ O ₃
Molecular Weight:	114.1
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-5-methyl-3-furanone (4-Hydroxy-5-methylfuran-3(2H)-one) is a natural product isolated from <i>Eurycotis floridana</i> .
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 55 mg/mL (482.03 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 2.5 mg/mL (21.91 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	8.7642 mL	43.8212 mL	87.6424 mL
5 mM	1.7528 mL	8.7642 mL	17.5285 mL
10 mM	0.8764 mL	4.3821 mL	8.7642 mL
50 mM	0.1753 mL	0.8764 mL	1.7528 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

Farine J P , Le J L Q , Duffy J , et al. 4-Hydroxy-5-methyl-3(2H)-furanone and 4-Hydroxy-2,5-dimethyl-3(2H)-furanone, Two Components of the Male Sex Pheromone of *Eurycotis floridana* (Walker) (Insecta, Blattidae, Polyzosteriinae)[J]. Japan Society for Bioscience, Biotechnology, and Agrochemistry, 1993(12).

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