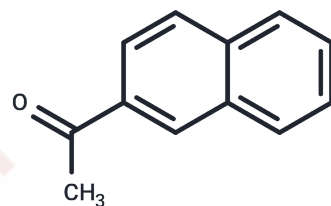


2-Acetonaphthone

Chemical Properties

CAS No. :	93-08-3
Formula:	C ₁₂ H ₁₀ O
Molecular Weight:	170.21
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	2-Acetonaphthone (beta-Naphthyl methyl ketone) is a fragrance, anticonvulsant, and antimicrobial agent. It has an onion type flavor and a sulfurous type odor.
Targets(IC50)	Mitochondrial Metabolism, Endogenous Metabolite, ROS

Solubility Information

Solubility	DMSO: 60 mg/mL (352.51 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 mg/mL (11.75 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	5.8751 mL	29.3755 mL	58.751 mL
5 mM	1.175 mL	5.8751 mL	11.7502 mL
10 mM	0.5875 mL	2.9375 mL	5.8751 mL
50 mM	0.1175 mL	0.5875 mL	1.175 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

- Karakurt A, Ozalp M, Işık S, Stables JP, Dalkara S. Synthesis, anticonvulsant and antimicrobial activities of some new 2-acetylnaphthalene derivatives. *Bioorg Med Chem*. 2010 Apr 15;18(8):2902-11.
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- Narender T, Sarkar S, Rajendar K, Tiwari S. Synthesis of biaryls via AlCl₃ catalyzed domino reaction involving cyclization, dehydration, and oxidation. *Org Lett*. 2011 Dec 2;13(23):6140-3.
- Yan Z, Maher N, Torres R, Caldwell GW, Huebert N. Rapid detection and characterization of minor reactive metabolites using stable-isotope trapping in combination with tandem mass spectrometry. *Rapid Commun Mass Spectrom*. 2005;19(22):3322-30.

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