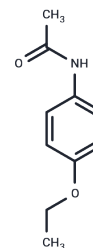


Phenacetin

Chemical Properties

CAS No. :	62-44-2
Formula:	C ₁₀ H ₁₃ NO ₂
Molecular Weight:	179.22
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	Phenacetin (Acetophenetidin) is a phenylacetamide that was formerly used in ANALGESICS but nephropathy and METHEMOGLOBINEMIA led to its withdrawal from the market.
Targets(IC50)	COX

Solubility Information

Solubility	H ₂ O: < 1 mg/mL (insoluble or slightly soluble), DMSO: 125 mg/mL (697.47 mM),Sonication is recommended. Ethanol: 34 mg/mL (189.71 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 (11.16 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	5.5797 mL	27.8987 mL	55.7973 mL
5 mM	1.1159 mL	5.5797 mL	11.1595 mL
10 mM	0.558 mL	2.7899 mL	5.5797 mL
50 mM	0.1116 mL	0.558 mL	1.1159 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

Brix AE. Toxicol Pathol. 2002 Nov-Dec;30(6):672-4.

Guo J, Xu Y, Chen L J, et al. Gut Microbiota and Host Cyp450s Co-contribute to Pharmacokinetic Variability in Mice With Non-Alcoholic Steatohepatitis: Vary From Drug to Drug. Journal of Advanced Research. 2021

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