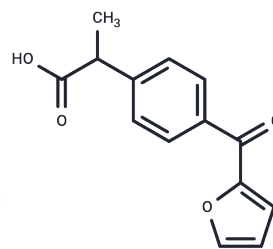


Furprofen

Chemical Properties

CAS No. :	66318-17-0
Formula:	C ₁₄ H ₁₂ O ₄
Molecular Weight:	244.24
Storage:	Pure form: -20°C for 3 years In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Furprofen is a non-steroidal anti-inflammatory agent that inhibits prostate (PGE) synthesis and is used in the study of rheumatoid arthritis and osteoarthritis.
Targets(IC50)	PGE Synthase, Prostaglandin Receptor

Solubility Information

Solubility	Ethanol: 80 mg/mL (327.55 mM), Sonication is recommended. DMSO: 50 mg/mL (204.72 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 (8.19 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	4.0943 mL	20.4717 mL	40.9433 mL
5 mM	0.8189 mL	4.0943 mL	8.1887 mL
10 mM	0.4094 mL	2.0472 mL	4.0943 mL
50 mM	0.0819 mL	0.4094 mL	0.8189 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

Carlucci G, et al. A high performance liquid chromatographic procedure for the simultaneous determination of norfloxacin and furprofen in rat plasma. Biomed Chromatogr. 1993 May-Jun;7(3):126-8.

Locatelli M, et al. Microextraction by packed sorbent and high performance liquid chromatography determination of seven non-steroidal anti-inflammatory drugs in human plasma and urine. J Chromatogr A. 2014 Nov 7;1367:1-8.

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