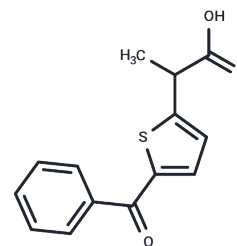


## Tiaprofenic acid

## Chemical Properties

CAS No. :	33005-95-7
Formula:	C <sub>14</sub> H <sub>12</sub> O <sub>3</sub> S
Molecular Weight:	260.31
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	Tiaprofenic acid (Acido tiaprofenico) is a non-steroidal anti-inflammatory drug used to treat pain, especially arthritic pain.
Targets(IC50)	COX

## Solubility Information

Solubility	H <sub>2</sub> O: Insoluble, Ethanol: 30 mg/mL (115.25 mM),Sonication is recommended. DMSO: 60 mg/mL (230.49 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 (7.68 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	3.8416 mL	19.2079 mL	38.4157 mL
5 mM	0.7683 mL	3.8416 mL	7.6831 mL
10 mM	0.3842 mL	1.9208 mL	3.8416 mL
50 mM	0.0768 mL	0.3842 mL	0.7683 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

Sorkin, E.M., et al.: Drugs, 29, 208 (1985)

Arrell, D., et al.: Clin. Pharmacol. Ther., 88, 120 (2010)

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