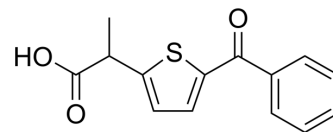


Tiaprofenic acid

Cat. No.:	HY-106579	
CAS No.:	33005-95-7	
Molecular Formula:	C ₁₄ H ₁₂ O ₃ S	
Molecular Weight:	260.31	
Target:	COX	
Pathway:	Immunology/Inflammation	
Storage:	Powder	-20°C 3 years
		4°C 2 years
	In solvent	-80°C 6 months
		-20°C 1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (384.16 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	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	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (9.60 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (9.60 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (9.60 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	Tiaprofenic acid is an orally active nonsteroidal anti-inflammatory agent (NSAID) with anti-inflammatory and analgesic potency. Tiaprofenic acid inhibits prostaglandin synthesis by suppressing cyclo-oxygenase (COX). Tiaprofenic acid can be used in the treatment of rheumatic diseases ^[1] .
In Vivo	Female Lewis rats received either Tiaprofenic acid (as an intravenous (iv.) bolus injection of 15 mg/kg and constant infusion of 0.02 mg/min) for 6 h. Tiaprofenic acid results in a significant decrease in serum sulfate concentrations and increase in sulfate clearance ratio. There is also a significant decrease in the fraction of sulfate reabsorbed by the kidneys ^[2] .

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. G L Plosker, et al. Tiaprofenic Acid. A Reappraisal of Its Pharmacological Properties and Use in the Management of Rheumatic Diseases. *Drugs*. 1995 Dec;50(6):1050-75.
- [2]. L J Benincosa, et al. Tiaprofenic Acid Inhibits the Renal Reabsorption of Sulfate in Rats. *Prostaglandins Leukot Essent Fatty Acids*. 1993 Jul;49(1):503-8.
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Caution: Product has not been fully validated for medical applications. For research use only.

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