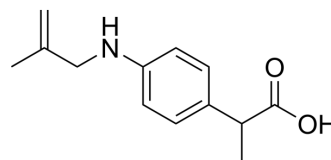


Alminoprofen

Cat. No.:	HY-17485
CAS No.:	39718-89-3
Molecular Formula:	C ₁₃ H ₁₇ NO ₂
Molecular Weight:	219.28
Target:	Phospholipase; COX
Pathway:	Metabolic Enzyme/Protease; Immunology/Inflammation
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (456.04 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	4.5604 mL	22.8019 mL	45.6038 mL
		5 mM	0.9121 mL	4.5604 mL	9.1208 mL
	10 mM	0.4560 mL	2.2802 mL	4.5604 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (11.40 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (11.40 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (11.40 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Alminoprofen (EB-382) is a nonsteroidal anti-inflammatory agent (NSAID) of the phenylpropionic acid class. Alminoprofen possesses a dual anti-inflammatory action, by inhibiting both secretory phospholipase A ₂ (sPLA ₂) and COX-2 ^[1] .	
IC ₅₀ & Target	sPLA2	COX-2
In Vitro	Alminoprofen possesses a dual anti-inflammatory action, by inhibiting both sPLA2 but also COX-2. Alminoprofen (from 0 to 50 μM) induces a dose-related inhibitory response on the levels of PGE2 formed by the CRL-1517 cell line ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

In Vivo

Alminoprofen (100-300 mg/kg; p.o.) exerts an anti-inflammatory activity^[1].

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

Animal Model:	Groups of Wistar Rats (Oedema of the paw) ^[1]
Dosage:	100 mg/kg
Administration:	P.o.
Result:	Exerted a statistically significant dose-dependent antagonist action lasting throughout the 2-hr observation period.

REFERENCES

[1]. Raguenes-Nicol C, et al. Anti-inflammatory mechanism of alminoprofen: action on the phospholipid metabolism pathway. *Biochem Pharmacol.* 1999;57(4):433-443.

Caution: Product has not been fully validated for medical applications. For research use only.

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