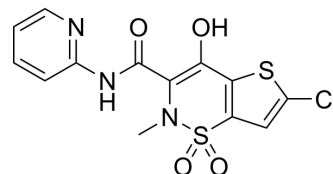


Lornoxicam

Cat. No.:	HY-B0367		
CAS No.:	70374-39-9		
Molecular Formula:	C ₁₃ H ₁₀ ClN ₃ O ₄ S ₂		
Molecular Weight:	371.82		
Target:	COX; Endogenous Metabolite		
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 3.8 mg/mL (10.22 mM; Need ultrasonic and warming)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
1 mM		2.6895 mL	13.4474 mL	26.8947 mL
5 mM		0.5379 mL	2.6895 mL	5.3789 mL
10 mM		0.2689 mL	1.3447 mL	2.6895 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Lornoxicam (Chlortenoxicam), a COX-1 and COX-2 inhibitor, is a new nonsteroidal anti-inflammatory drug (NSAID). Target: COX. Lornoxicam showed a balanced inhibition of COX-1/-2 exhibiting the lowest IC₅₀ (0.005 microM/0.008 microM) of the large panel of NSAIDs tested. Lornoxicam showed a marked inhibition of IL-6 formation (IC₅₀ 54 microM) while the formation of TNF-alpha, IL-1beta and IL-8 was only moderately affected [1]. Lornoxicam is effective in the treatment of patients with activated osteoarthritis; the analgesic and anti-inflammatory effects of lornoxicam are significantly superior to those of rofecoxib without inferiority in tolerability [2]. Lornoxicam was fully effective for prevention of hyperalgesia [3].

IC₅₀ & Target

COX-1	COX-2
5 nM (IC ₅₀ , in cells)	45 nM (IC ₅₀ , in cells)

REFERENCES

[1]. Spyra S, et al. COX-2-selective inhibitors celecoxib and deracoxib modulate transient receptor potential vanilloid 3 channels. Br J Pharmacol. 2017 Aug;174(16):2696-2705.

[2]. Rose, P. and C. Steinhauser, Comparison of Lornoxicam and Rofecoxib in Patients with Activated Osteoarthritis (COLOR Study). Clin Drug Investig, 2004. 24(4): p. 227-36.

[3]. Bianchi, M. and A.E. Panerai, Effects of lornoxicam, piroxicam, and meloxicam in a model of thermal hindpaw hyperalgesia induced by formalin injection in rat tail. Pharmacol Res, 2002. 45(2): p. 101-5.

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

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