## Tinoridine

®

MedChemExpress

Cat. No.:	HY-W032848
CAS No.:	24237-54-5
Molecular Formula:	C <sub>17</sub> H <sub>20</sub> N <sub>2</sub> O <sub>2</sub> S
Molecular Weight:	316.42
Target:	COX
Pathway:	Immunology/Inflammation
Storage:	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)

## SOLVENT & SOLUBILITY

	Mass Solvent Concentration	1 mg	5 mg	10 mg
Preparing Stock Solution	1 mM	3.1604 mL	15.8018 mL	31.6036 mL
Stock Solutions	5 mM	0.6321 mL	3.1604 mL	6.3207 mL
	10 mM	0.3160 mL	1.5802 mL	3.1604 mL

DIOLOGICAL ACTIV			
Description	Tinoridine (Y-3642) is an orally active non-steroidal anti-inflammatory agent with potent antiperoxidative ability and radical scavenger activity. Tinoridine acts function by inhibiting COX enzyme, involves in hepatotoxicity inhibition. <sup>[1][2][3]</sup> .		
In Vitro	Tinoridine (10-100 μM) exerts effect on stability of rat liver and kidney lysosomes, and liver parenchymal cells <sup>[3]</sup> . Tinoridine (1, 10, and 100 μM; 30 min) inhibits spontaneous release of acid phosphatase from liver lymomoses in vitro <sup>[3]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
In Vivo	Tinoridine (100 mg/kg; p.o.; enzyme activities <sup>[2]</sup> . Tinoridine (100 mg/kg; i.p.; s MCE has not independently o	noridine (100 mg/kg; p.o.; single dose) inhibits CCl <sub>4</sub> hepatotoxicity in rats, with a strong control of the CCl4-induced zyme activities <sup>[2]</sup> . noridine (100 mg/kg; i.p.; single dose) protects the stability of rat liver and kidney lysosomes in vivo <sup>[3]</sup> . The has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	Male Wistar rats (180-220 g) <sup>[2]</sup>	
	Dosage:	100 mg/kg	

## Product Data Sheet

-NH<sub>2</sub>

C

Administration:	Oral gavage; single dose; 1 hour before CCl <sub>4</sub> (i.p.; 0.25 mL/kg) treatment
Result:	Inhibited the CCl <sub>4</sub> -induced enzyme activities increase of serum glutamic-oxaloacetic transaminase and glutamic-pyruvic transaminase, and also rescued the liver microsoma
	cytochrome P-450 and glucose-6-phosphatase activities.

## REFERENCES

[1]. da Cruz RMD, et al. Thiophene-Based Compounds with Potential Anti-Inflammatory Activity. Pharmaceuticals (Basel). 2021 Jul 19;14(7):692.

[2]. Yasuda H, et al. The protective effect of tinoridine against carbon tetrachloride hepatotoxicity. Toxicol Appl Pharmacol. 1980 Mar 15;52(3):407-13.

[3]. Goto K, et al. Effect of tinoridine on stability of rat liver and kidney lysosomes, and liver parenchymal cells. Biochem Pharmacol. 1977 Jan 1;26(1):11-8.

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

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