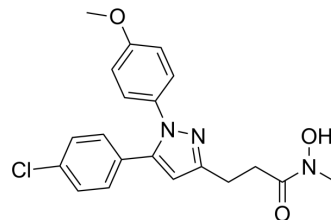


## Tepoxalin

<b>Cat. No.:</b>	HY-13219		
<b>CAS No.:</b>	103475-41-8		
<b>Molecular Formula:</b>	C <sub>20</sub> H <sub>20</sub> ClN <sub>3</sub> O <sub>3</sub>		
<b>Molecular Weight:</b>	385.84		
<b>Target:</b>	COX; Lipoxygenase		
<b>Pathway:</b>	Immunology/Inflammation; Metabolic Enzyme/Protease		
<b>Storage:</b>	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 (259.17 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.5917 mL	12.9587 mL	25.9175 mL
	5 mM	0.5183 mL	2.5917 mL	5.1835 mL
	10 mM	0.2592 mL	1.2959 mL	2.5917 mL

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

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (6.48 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (6.48 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (6.48 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Tepoxalin is a dual inhibitor of COX and 5-lipoxygenase (5-LO) with potent anti-inflammatory activity and a favorable gastrointestinal profile<sup>[1]</sup>.

### REFERENCES

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[1]. Argentieri DC, et al. Tepoxalin: a dual cyclooxygenase/5-lipoxygenase inhibitor of arachidonic acid metabolism with potent anti-inflammatory activity and a favorable gastrointestinal profile. J Pharmacol Exp Ther. 1994 Dec;271(3):1399-408.

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

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