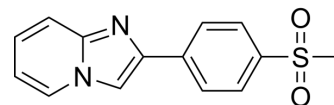


Zolimidine

Cat. No.:	HY-108278		
CAS No.:	1222-57-7		
Molecular Formula:	C ₁₄ H ₁₂ N ₂ O ₂ S		
Molecular Weight:	272.32		
Target:	Others		
Pathway:	Others		
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 : 50 mg/mL (183.61 mM; ultrasonic and warming and heat to 60°C)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	3.6722 mL	18.3608 mL	36.7215 mL
		5 mM	0.7344 mL	3.6722 mL	7.3443 mL
		10 mM	0.3672 mL	1.8361 mL	3.6722 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 (9.18 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (9.18 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Zolimidine, a derivate of imidazopyridine, is an orally active antiulcer agent. Zolimidine stimulates mucus secretion in intestinal mucosal cells and enhances intestinal wall more resistant to ulceration. Zolimidine exhibits gastroprotective effect in duodenal ulcer research ^{[1][2]} .
In Vivo	Zolimidine (200 mg/kg; po) reduces the incidence of intestinal ulcers induced by Indomethacin (HY-14397) (5 mg/kg/day for 8 days, rectally) in rats ^[2] . Zolimidine (1% in the diet) decreases the incidence of intestinal ulcers caused by carrageenan (5% in the drinking water, for 40 days) in guinea pigs ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Belohlavek D, et al. The effect of zolimidine, imidazopyridine-derivate, on the duodenal ulcer healing. Scand J Gastroenterol Suppl. 1979;54:44.
- [2]. Carminati GM, et al. Protective action of zolimidine against two different types of experimental intestinal ulcers. Farmaco, Edizione Pratica (1978), 33(2), 68-79.
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Caution: Product has not been fully validated for medical applications. For research use only.

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