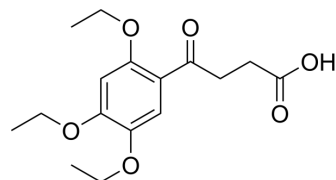


Trepibutone

Cat. No.:	HY-108283
CAS No.:	41826-92-0
Molecular Formula:	C ₁₆ H ₂₂ O ₆
Molecular Weight:	310.34
Target:	Others
Pathway:	Others
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 (322.23 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	3.2223 mL	16.1114 mL	32.2227 mL
		5 mM	0.6445 mL	3.2223 mL	6.4445 mL
	10 mM	0.3222 mL	1.6111 mL	3.2223 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 (8.06 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (8.06 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Trepibutone (AA 149) increases secretion of bile and pancreatic juice, and accelerates flaccidity of the smooth muscle in the gastrointestinal tract. Trepibutone can be used for the research of cholecystitis and functional gastrointestinal disorders ^[1] [2].
In Vitro	Trepibutone (1-1000 μM) markedly relaxes the sphincter of Oddi and duodenum ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Trepibutone (1-20 mg/kg; i.v. once) dose-dependently increases bile flow ^[2] . Trepibutone (10 mg/kg; i.v. 3 h after ¹⁴ C-erythritol injection) stimulates canalicular bile formation without enhancement of water secretion and inhibition of bile reabsorption in the biliary ductules and ducts ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Anesthetized beagle dogs ^[2]
Dosage:	1-20 mg/kg
Administration:	Intravenous injection; 1-20 mg/kg once
Result:	Dose-dependently increased the bile flow of dogs and showed the peak increases of the bile flow with a dose of 10 mg/kg .
Animal Model:	Beagle dogs with ¹⁴ C-erythritol injection ^[2]
Dosage:	10 mg/kg
Administration:	Intravenous injection; 10 mg/kg; 3 h after ¹⁴ C-erythritol injection
Result:	Increased the bile flow associated with canalicular bile flow and stimulated canalicular bile formation.

REFERENCES

[1]. Hiroshi Satou, et al. RELAXING ACTION OF TREPIBUTONE (AA-149) ON THE ISOLATED SPHINCTER OF ODDI AND SMALL INTESTINE OF RABBITS. The Japanese Journal of Pharmacology. 1981.

[2]. Satoh H, et al. A possible mechanism of choleric action of 3-(2,4,5-triethoxybenzoyl)-propionic acid (AA-149) in dogs. Eur J Pharmacol. 1978 Mar 1;48(1):125-32.

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

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