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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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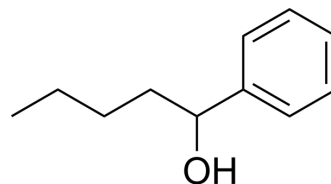
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Fenipentol

Cat. No.:	HY-B1273
CAS No.:	583-03-9
Molecular Formula:	C ₁₁ H ₁₆ O
Molecular Weight:	164.24
Target:	Fluorescent Dye
Pathway:	Others
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (608.87 mM; Need ultrasonic)					
		Solvent Concentration	Mass			
	Preparing Stock Solutions			1 mg	5 mg	10 mg
		1 mM		6.0887 mL	30.4433 mL	60.8865 mL
		5 mM		1.2177 mL	6.0887 mL	12.1773 mL
	10 mM		0.6089 mL	3.0443 mL	6.0887 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (15.22 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (15.22 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (15.22 mM); Clear solution 					

BIOLOGICAL ACTIVITY

Description	Fenipentol (1-Phenyl-1-pentanol), a synthetic derivative of an ingredient of Curcuma longa that is used as a condiment and dye. Fenipentol is also an orally active choleric agent that plays an important role in release of secretin, gastrin, and pancreatic secretion of bicarbonate and protein ^{[1][2][3]} .
In Vivo	<p>Fenipentol (PHP) (50-200 mg/kg; p.o. and intraduodenal administration) increases the secretory volume of pancreatic juice and the output of protein in rats^[2].</p> <p>Fenipentol (50-200 mg/kg for i.p. and 5-10 mg/kg for i.v.) considerably increases biliary secretion in rats^[2].</p> <p>Fenipentol (25-200 mg/kg; intraduodenal administration) stimulates the pancreatic secretion in the canine^[2].</p>

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Fregnan GB, et, al. Therapeutic properties of dihydroxy-dibutylether on sub-acute liver damage induced by several hepatotoxic agents in rats. *Int J Tissue React.* 1982; 4(4): 309-18.
- [2]. Wakabayashi T, et, al. [Effect of 1-phenyl-1-hydroxy-n-pentane on pancreatic secretion in the rat and the dog]. *Nihon Yakurigaku Zasshi.* 1971 Nov; 67(6): 637-47.
- [3]. Sharma A, et, al. Biocatalytic and electrochemical reduction of selected phenyl alkanones with antibacterial activity of the corresponding phenyl alkanols. *Ijabpt Com,* 2011.
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Caution: Product has not been fully validated for medical applications. For research use only.

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