Fenipentol

Cat. No.: HY-B1273

CAS No.: 583-03-9

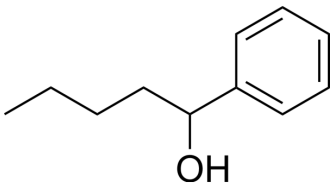
Molecular Formula: $C_{11}H_{16}O$

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)

Preparing Stock Solutions	Mass / Solvent / Concentration	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

1. 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
2. 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
3. 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 choleretic agent that plays an important role in release of secretin, gastrin, and pancreatic secretion of bicarbonate and protein[1][2][3].

In Vivo

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].
Fenipentol (50-200 mg/kg for i.p. and 5-10 mg/kg for i.v.) considerably increases biliary secretion in rats[2].
Fenipentol (25-200 mg/kg; intraduodenal administration) stimulates the pancreatic secretion in the canine[2].

	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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