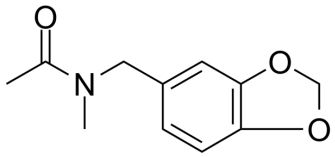
SY-640

Cat. No.:	HY-106947
CAS No.:	168705-70-2
Molecular Formula:	$C_{11}H_{13}NO_3$
Molecular Weight:	207.23
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Pure form -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 (482.56 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	4.8256 mL	24.1278 mL	48.2556 mL
	5 mM	0.9651 mL	4.8256 mL	9.6511 mL
	10 mM	0.4826 mL	2.4128 mL	4.8256 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (12.06 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

SY-640 is an Acetamide derivative and has potent hepatoprotective effect. SY-640 reduces Propionibacterium acnes and Lipopolysaccharide-induced liver injury in mice[1][2].

In Vitro

SY-640 inhibits the number of liver-infiltrating cells and attenuates the increased expression of leukocyte function-associated antigen-1 on these cells[1].

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

In Vivo

SY-640 (Oral; 150 mg/kg; once daily for 7 days) significantly inhibits Propionibacterium acnes and Lipopolysaccharide-induced liver injury, but a single administration is without effect[1].

SY-640 (p.o.; 150 mg/kg; once daily for three days) significantly increases the liver microsomal cytochrome P-450 content and aminopyrine demethylase activity in mice. The hepatic microsomal aminopyrine demethylase activity is obviously inhibited two hours after oral administration of SY-640[2].

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

REFERENCES

[1]. Y Tanaka, et al. Hepatoprotective effect of SY-640, a novel acetamide derivative, on Propionibacterium acnes and lipopolysaccharide-induced liver injury in mice. Arch Int Pharmacodyn Ther. Mar-Apr 1995;329(2):319-30.

[2]. P F Li, et al. [Inhibitory effect of 2-(N-acetyl-methyl amino)-3',4'-methylenedioxyacetyl-aminophene(SY-640) on covalent binding of carcinogenic benzo(a)pyrene with mouse hepatocyte nuclear DNA]. Yao Xue Xue Bao. 1997 Sep;32(9):663-8.

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