

Product Data Sheet

Product Name: SY-640
 Cat. No.: GC61310

Chemical Properties

Cas. No. 168705-70-2

SMILES CC(N(C)CC1=CC2=C(OCO2)C=C1)=O

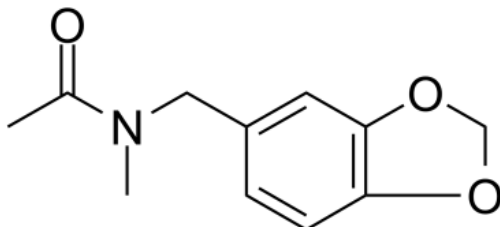
Formula $C_{11}H_{13}NO_3$ M.Wt 207.23

Solubility DMSO: 100 mg/mL (482.56 mM) Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

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].

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

SY-640 (Oral; 150 mg/kg; once daily for 7 days) significantly inhibits Propionibacterium acnes and

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

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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].

[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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