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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Olivetol

Cat. No.: HY-W008364

CAS No.: 500-66-3

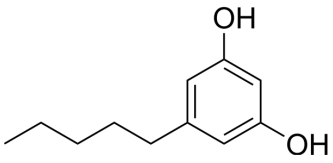
Molecular Formula: $C_{11}H_{16}O_2$

Molecular Weight: 180.24

Target: Cytochrome P450; Cannabinoid Receptor

Pathway: Metabolic Enzyme/Protease; GPCR/G Protein; Neuronal Signaling

Storage: 4°C, stored under nitrogen
* In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (554.82 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	5.5482 mL	27.7408 mL	55.4816 mL
	5 mM	1.1096 mL	5.5482 mL	11.0963 mL
	10 mM	0.5548 mL	2.7741 mL	5.5482 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 (13.87 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (13.87 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (13.87 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Olivetol is a naturally phenol found in lichens and produced by certain insects, acting as a competitive inhibitor of the cannabinoid receptors CB1 and CB2[3]. Olivetol also inhibits CYP2C19 and CYP2D6 activity, with IC_{50}s of 15.3 μM, 7.21 μM and K_is of 2.71 μM, 2.87 μM, respectively[1][2].

IC_{50} & Target

CYP2

In Vitro

Olivetol inhibits the (S)-mephenytoin 4'-hydroxylase activity of CYP2C19 activity with an IC_{50} of 15.3 μM and a K_i of 2.71 μM[1]. Olivetol also inhibits AMMC O-demethylase activity of recombinant CYP2D6 with an IC_{50} of 7.21 μM and a K_i of 2.87 μM[2]. Olivetol is a competitive inhibitor of the cannabinoid receptors CB1 and CB2[3].

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

REFERENCES

[1]. Jiang R, et al. Cannabidiol is a potent inhibitor of the catalytic activity of cytochrome P450 2C19. Drug Metab Pharmacokinet. 2013;28(4):332-8.

[2]. Yamaori S, et al. Cannabidiol, a major phytocannabinoid, as a potent atypical inhibitor for CYP2D6. Drug Metab Dispos. 2011 Nov;39(11):2049-56.

[3]. James J. Carberry , et al. Composition of Olivetol and Method of Use to Reduce or Inhibit the Effects of Tetrahydrocannabinol in the Human Body. US20170143644A1

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