Higenamine

Cat. No.: HY-N2037

CAS No.: 5843-65-2

Molecular Formula: $C_{16}H_{17}NO_3$

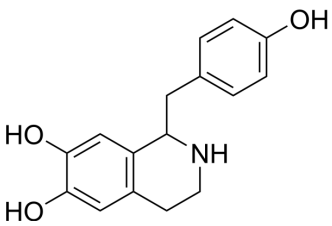
Molecular Weight: 271.31

Target: Adrenergic Receptor

Pathway: GPCR/G Protein; Neuronal Signaling

Storage: 4°C, sealed storage, away from moisture

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (368.58 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	3.6858 mL	18.4291 mL	36.8582 mL
5 mM	0.7372 mL	3.6858 mL	7.3716 mL
10 mM	0.3686 mL	1.8429 mL	3.6858 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 (9.21 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (9.21 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Higenamine (Norcoclaurine), a β2-AR agonist, is a key component of the Chinese herb aconite root that prescribes for treating symptoms of heart failure in the oriental Asian countries. Higenamine (Norcoclaurine) has anti-apoptotic effects[1][2].

IC_{50} & Target

β adrenergic receptor

CUSTOMER VALIDATION

- Nutrients. 2024 May 22.
- J Pharmaceut Biomed. 2020, 113870.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Wu MP, et al. Higenamine protects ischemia/reperfusion induced cardiac injury and myocyte apoptosis through activation of β2-AR/PI3K/AKT signaling pathway. Pharmacol Res. 2016 Feb;104:115-23.

[2]. Lee SR, et al. Acute oral intake of a higenamine-based dietary supplement increases circulating free fatty acidsand energy expenditure in human subjects. Lipids Health Dis. 2013 Oct 21;12:148.

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