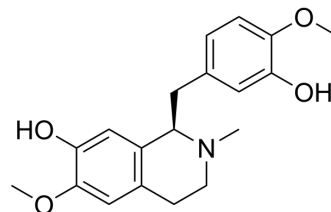


(R)-Reticuline

Cat. No.:	HY-N1356A
CAS No.:	3968-19-2
Molecular Formula:	C ₁₉ H ₂₃ NO ₄
Molecular Weight:	329.39
Target:	Others
Pathway:	Others
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (7.59 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (7.59 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

(R)-Reticuline is an isomer of Reticuline (HY-N1356). Reticuline displays anti-inflammatory and cardiovascular effects through JAK2/STAT3 and NF-κB signaling pathways. Salutaridine is a key intermediate in morphine biosynthesis. Salutaridine can be converted from (R)-Reticuline in the poppy plant. The conversion system relies on membrane-bound cytochrome P-450 enzymes and also requires reducing cofactors NADPH, molecular oxygen, etc^{[1][2]}.

REFERENCES

- [1]. Gerardy R, et al. Formation of salutaridine from (R)-reticuline by a membrane-bound cytochrome P-450 enzyme from *Papaver somniferum*[J]. *Phytochemistry*, 1992, 32(1): 79-86.
- [2]. Yang X, et al. Anti-Inflammatory Effects of Boldine and Reticuline Isolated from *Litsea cubeba* through JAK2/STAT3 and NF-κB Signaling Pathways. *Planta Med.* 2018 Jan;84(1):20-25.

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

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