

Product Data Sheet

Product Name: (R)-Reticuline

Cat. No.: GC71979

Chemical Properties

Cas. No. 3968-19-2

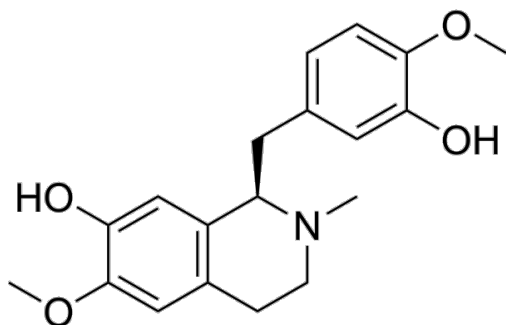
Formula $C_{19}H_{23}NO_4$ M.Wt 329.39

Solubility DMSO : 100 mg/mL (303.59 mM); Storage 4°C, protect from light
Need ultrasonic; Hygroscopic DMSO has a significant impact on the solubility of product, please use newly opened DMSO)

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

(R)-Reticuline is an isomer of Reticuline . 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

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

reducing cofactors NADPH, molecular oxygen, etc.

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- κ B Signaling Pathways. *Planta Med.* 2018 Jan;84(1):20-25.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA