
Product Data Sheet

Product Name: Tetrahydroepiberberine

Cat. No.: GC39098

Chemical Properties

Cas. No. 38853-67-7

SMILES COC1=CC2=C(C=C1OC)CCN3C2CC(C=CC4=C5OCO4)=C5C3Formula C₂₀H₂₁NO₄

M.Wt 339.39

Solubility DMSO : 20.83 mg/mL (61.37 mM; ultrasonic and warming and heat to 80°C)

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**

Tetrahydroepiberberine is an alkaloid originally isolated from *P. rhoeas* that has diverse biological activities.^{1,2} It is active against the fungus *C. albicans* (MIC = 8 µg/ml), as well as the bacteria *E. coli*, *P. aeruginosa*, *P. mirabilis*, *K. pneumoniae*, *A. baumannii*, *S. aureus*, and *B. subtilis* (MICs = 32-64 µg/ml, respectively).² Tetrahydroepiberberine (16 µg/ml) inhibits the cytopathogenic effect of parainfluenza-3 (PI-3) virus in Vero cells. It decreases the viability of HaCaT keratinocytes (IC₅₀ = 150 µM).¹

1.Hijazi, M.A., Aboul-Ela, M., Bouhadir, K., et al.Cytotoxic activity of alkaloids from Papaver rhoeas growing in LebanonRec. Nat. Prod.11(2)211-216(2017) 2.Orhana, I., Ozelik, B., Karaoğlu, T., et al.Antiviral and antimicrobial profiles of selected isoquinoline alkaloids from Fumaria and Corydalis speciesZ. Naturforsch. C. J. Biosci.62(1-2)19-26(2007)

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
