

Product Data Sheet

Product Name: Nepodin
Cat. No.: GC38567

Chemical Properties

Cas. No. 3785-24-8

SMILES CC(C1=C(C)C=C2C=CC=C(O)C2=C1O)=O

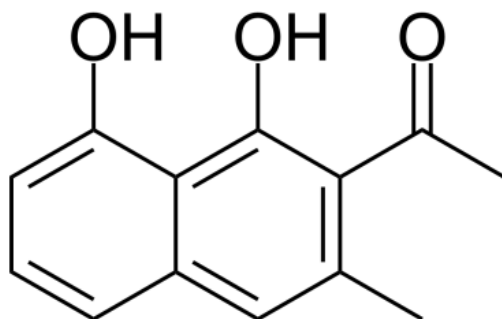
Formula $C_{13}H_{12}O_3$ M.Wt 216.23

Solubility DMSO : 125 mg/mL (578.09 mM; Need ultrasonic) Storage 4°C, protect from light

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

Nepodin (Musizin) is a quinone oxidoreductase (PfNDH2) inhibitor isolate from Rumex crispus[1]. Nepodin (Musizin) stimulates the translocation of GLUT4 to the plasma membrane by activation of AMPK[2]. Nepodin (Musizin) has antidiabetic and antimalarial activities.

Nepodin (Musizin) exhibits significant IC₅₀ values that are 0.74 and 0.79 µg/ml against P. falciparum chloroquine-sensitive (3D7) and P. falciparum chloroquine-resistant (S20), respectively[1].

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

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Nepodin (Musizin) (orally administration; 2-10 mg/kg; 4 weeks) improves the impaired glucose tolerance of db/db mice, also decreases an increase in plasma insulin concentration of db/db mice in a dose-dependent manner[2]. Animal Model: C57BL/KsJ-db/db mice[2]

[1]. Lee KH, et al. Antimalarial activity of nepodin isolated from Rumex crispus. Arch Pharm Res. 2013 Apr;36(4):430-5. [2]. Ha BG, et al. Antidiabetic effect of nepodin, a component of Rumex roots, and its modes of action in vitro and in vivo. Biofactors. 2014 Jul-Aug;40(4):436-47.

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