
Product Data Sheet

Product Name: Dehydroeffusol

Cat. No.: GC35834

Chemical Properties

Cas. No. 137319-34-7

SMILES OC1=CC=C2C3=C(C=C)C=C(O)C=C3C=CC2=C1CFormula $C_{17}H_{14}O_2$ M.Wt 250.29

Solubility Soluble in DMSO 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**

Dehydroeffusol is a phenanthrene from medicinal herb Juncus effuses. Dehydroeffusol inhibits gastric cancer cell growth and tumorigenicity by selectively inducing tumor-suppressive endoplasmic reticulum stress and a moderate apoptosis. It shows very low toxicity[1][2].

Dehydroeffusol suppresses the expression of vasculogenic mimicry key gene VE-cadherin[2]. Dehydroeffusol decreases the MMP2 expression and activity in gastric cancer cells[2].

[1]. Zhang B, et al. Dehydroeffusol inhibits gastric cancer cell growth and tumorigenicity by selectively inducing tumor-suppressive endoplasmic reticulum stress and a moderate apoptosis. *Biochem Pharmacol.* 2016 Mar 15;104:8-18. [2]. Liu W, et al. Dehydroeffusol effectively inhibits human gastric cancer cell-mediated vasculogenic mimicry with low toxicity. *Toxicol Appl Pharmacol.* 2015 Sep 1;287(2):98-110.

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

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