

Product Data Sheet

Product Name: Norstictic Acid

Cat. No.: GC46018

Chemical Properties

Cas. No. 571-67-5

SMILES O=CC1=C2C(C(OC(C(C)=C(O)C3=C4C(O)OC3=O)=C4O2)=O)=C(C)C=C1O

Formula C₁₈H₁₂O₉

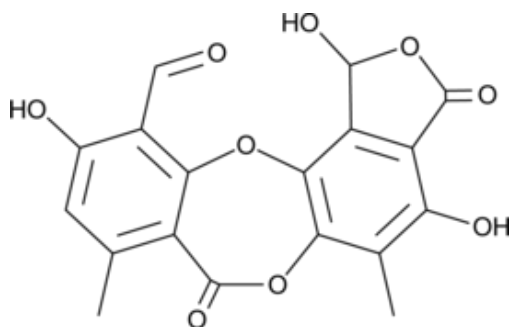
M.Wt 372.3

Solubility DMSO : 10 mg/mL (26.86 mM; Need ultrasonic and warming) 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

Norstictic acid is a lichen metabolite that has been found in *R. farinacea* and has antimicrobial and anticancer activities.^{1,2} It is active against *A. hydrophilia*, *B. subtilis*, *L. monocytogenes*, *P. vulgaris*, *S. faecalis*, *C. albicans*, and *C. glabrata* (MICs = 0.1-6.7 mM).¹ Norstictic acid (1-100 µM) inhibits proliferation, migration, and invasion of MDA-MB-231 cells.² In vivo, norstictic acid (15 mg/kg, i.p.) reduces tumor growth in an MDA-MB-231/GFP mouse xenograft model.

[1. Tay, T., Türk, A., Yilmaz, M., et al. Evaluation of the antimicrobial activity of the acetone extract of the lichen *Ramalina farinacea* and its (+)-usnic acid, norstictic acid, and protocetraric acid constituents. *Z. Naturforsch. C J. Biosci.* 59(5-6), 384-388 (2004).]2. Ebrahim, H.Y., Elsayed, H.E., Mohyeldin, M.M., et al. Norstictic acid inhibits breast cancer cell proliferation, migration, invasion, and

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

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in vivo invasive growth through targeting c-Met. *Phytother. Res.* 30(4), 557-566 (2016).

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