

Product Data Sheet

Product Name: β -Aescin (97-103%(T),beta $\geq$ 60%(HPLC)(Lossondrying $\leq$ 5%))

Cat. No.: GC49467

Chemical Properties

Cas. No. 11072-93-8

SMILES CC1(C)[C@@H](OC(C(C)=CC)=O)[C@H](OC(C)=O)[C@]2(CO)[C@H](O)C[C@@]3(C)[C@]4(C)CC[C@@]5([H])[C@@](C)(CO)[C@@H](O[C@H]6[C@H](O[C@H]7[C@H](O)[C@@H](O)[C@H](O)[C@@H](CO)O7)[C@@H](O)[C@H](O[C@@H]8O[C@H](CO)[C@@H](O)[C@H](O)[C@H]8O)[C@@H](C(O)=O)O6)CC[C@]5(C)[C@@]4([H])CC=C3[C@]2([H])C1

Formula

M.Wt

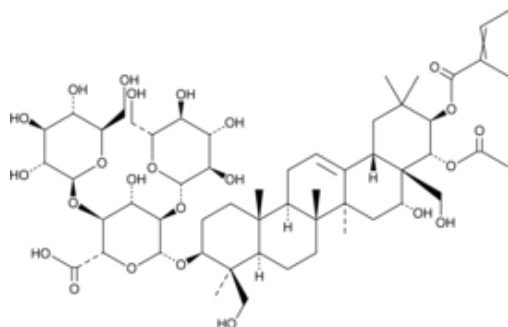
Solubility DMF: 1 mg/ml,DMSO: 1 mg/ml

Storage Store at 2-8°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

β -Aescin is a triterpenoid saponin that has been found in *A. hippocastanum* and has diverse biological activities.^{1,2,3,4} It inhibits the proliferation of QBC939, SK-ChA-1, and Mz-ChA-1 cholangiocarcinoma cells (IC₅₀s = 34.06, 33.3, and 22.1 μ M, respectively).¹ β -Aescin inhibits herpes simplex virus 1 (HSV-1) infection in Vero cells (EC₅₀s = 1.9-2.4 μ g/ml).² It increases contraction tension in isolated dog saphenous vein strips in a concentration-dependent manner.³ β -

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

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Aescin (10 mg/kg) reduces brain edema in a rat model of traumatic brain injury.⁴

1. Shen, D.-Y., Kang, J.-H., Song, W., et al. Apoptosis of human cholangiocarcinoma cell lines induced by β -escin through mitochondrial caspase-dependent pathway. *Phytother. Res.* 25(10):1519-1526(2011)
2. Michelini, F.M., AlchÉ, L.E., and Bueno, C.A. Virucidal, antiviral and immunomodulatory activities of β -escin and Aesculus hippocastanum extract. *J. Pharm. Pharmacol.* 70(11):1561-1571(2018)
3. Yu, Z., and Su, P. Effect of β -aescin extract from Chinese buckeye seed on chronic venous insufficiency. *Pharmazie* 68(6):428-430(2013)
4. Xiao, G., and Wei, J. Effects of β -aescin on the expression of nuclear factor- κ B and tumor necrosis factor- α after traumatic brain injury in rats. *J. Zhejiang. Univ. Sci. B.* 6(1):28-32(2005)

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