

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@@]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 \times 10⁻⁶M, respectively).¹ β -Aescin inhibits herpes simplex virus 1 (HSV-1) infection in Vero cells (EC₅₀s = 1.9-2.4 \times 10⁻⁶g/ml).² It increases contraction tension in isolated dog saphenous vein strips in a concentration-dependent manner.³ β -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 pathwayPhytother. Res.25(10)1519-1526(2011) 2.Michelini, F.M., AlchÉ, L.E., and Bueno, C.A.Virucidal,

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

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antiviral and immunomodulatory activities of β -escin and Aesculus hippocastanum extractJ. 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 insufficiencyPharmazie68(6)428-430(2013) 4.Xiao, G., and Wei, J.Effects of β -aescin on the expression of nuclear factor- κ β and tumor necrosis factor- α after traumatic brain injury in ratsJ. Zhejiang. Univ. Sci. B.6(1)28-32(2005)

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