

Product Data Sheet

Product Name: Arjunolic Acid

Cat. No.: GC46005

Chemical Properties

Cas. No. 465-00-9

SMILES CC1(C)CC[C@]2(C(O)=O)CC[C@@]3(C)[C@]4(C)CC[C@@]5([H])[C@@](CO)(C)[C@@H](O)[C@H](O)C[C@]5(C)[C@@]4([H])CC=C3[C@]2([H])C1

Formula C₃₀H₄₈O₅

M.Wt 488.7

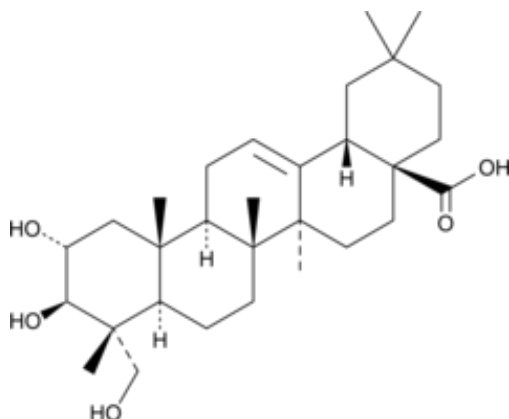
Solubility Soluble in DMSO

Storage Store at -20°C

General For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the tips ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution : ship with blue ice All other available size: ship with RT, or Condition blue ice upon request.

Structure



Background

Arjunolic acid is a triterpene that has been found in *T. arjuna* and has diverse biological activities, including antioxidant, anticancer, and anti-inflammatory properties.^{1,2,3} It scavenges 2,2-diphenyl-1-picrylhydrazyl radicals in a cell-free assay when used at a concentration of 0.8 mM.¹ Arjunolic acid (20 mg/kg for four days) prevents arsenic-induced decreases in the activity of superoxide dismutase (SOD1), catalase, GST, and glutathione reductase in mouse brain. It reduces tumor growth in an Ehrlich murine spontaneous adenocarcinoma model when administered at doses of 100 and 250 mg/kg for 20 days.² Arjunolic acid reduces renal fibrosis and increases in kidney TNF-α and IL-1β levels induced by cisplatin in mice when administered at doses of 100 and 250 mg/kg per day for 10

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

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days.3

|1. Sinha, M., Manna, P., and Sil, P.C. Protective effect of arjunolic acid against arsenic-induced oxidative stress in mouse brain. J. Biochem. Mol. Toxicol. 22(1), 15-26 (2008).|2. Elsherbiny, N.M., and Al-Gayyar, M.M. Anti-tumor activity of arjunolic acid against Ehrlich Ascites Carcinoma cells in vivo and in vitro through blocking TGF- β type 1 receptor. Biomed. Pharmacother. 82, 28-34 (2016).|3. Elsherbiny, N.M., Eladl, M.A., and Al-Gayyar, M.M. Renal protective effects of arjunolic acid in a cisplatin-induced nephrotoxicity model. Cytokine 77, 26-34 (2016).

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