
Product Data Sheet

Product Name: Karanjin
Cat. No.: GC63934

Chemical Properties

Cas. No. 521-88-0

Formula C₁₈H₁₂O₄

M.Wt 292.29

Solubility DMSO : 25 mg/mL (85.53 mM; ultrasonic and warming and heat to 60°C)

Storage 4°C, away from moisture and light

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

Karanjin is a major active furanoflavonol constituent of *Fordia cauliflora*. Karanjin induces GLUT4 translocation in skeletal muscle cells by increasing AMPK activity. Karanjin can induce cancer cell death through cell cycle arrest and enhance apoptosis[1] [2].

[1]. Jaiswal N, et al. Karanjin from *Pongamia pinnata* induces GLUT4 translocation in skeletal muscle cells in a phosphatidylinositol-3-kinase-independent manner. *Eur J Pharmacol.* 2011 Nov 16;670(1):22-8.

[2]. Guo JR, et al. Effects of karanjin on cell cycle arrest and apoptosis in human A549, HepG2 and HL-60 cancer cells. *Biol Res.* 2015 Jul 26;48:40.

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

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