
Product Data Sheet

Product Name: Bacopasaponin C

Cat. No.: GC35456

Chemical Properties

Cas. No. 178064-13-6

Formula C₄₆H₇₄O₁₇ M.Wt 899.07

Solubility Methanol: soluble Storage 4°C, protect from 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

Bacopasaponin C is a triterpenoid saponin originally isolated from *B. monniera* that has diverse biological activities.^{1,2,3} It inhibits the ATPase activity of P-glycoprotein (IC₅₀ = 57.83 μg/ml).⁴ Bacopasaponin C inhibits scopolamine-induced impairments in spatial memory in the Morris water maze and memory retrieval in the step-down test in mice when administered at a dose of 50 mg/kg.¹ It also decreases the time mice spent immobile in the forced swim and tail suspension tests, indicating antidepressant-like activity.² Bacopasaponin C reduces the spleen parasite load in a hamster model of leishmaniasis when administered as a free compound or in liposomal, niosomal, microencapsulated, or nanocapsulated forms.³

1. Zhou, Y., Peng, L., Zhang, W.-D., et al. Effect of triterpenoid saponins from *Bacopa monniera* on scopolamine-induced memory impairment in mice. *Planta Med.* 75(6):568-574(2009)

2. Zhou, Y., Shen, Y.-H., Zhang, C., et al. Triterpene saponins from *Bacopa monnieri* and their antidepressant effects in two mice models. *J. Nat. Prod.* 70(4):652-655(2007)

3. Sinha, J., Raay, B., Das, N., et al. Bacopasaponin C: Critical evaluation of anti-leishmanial properties in various delivery modes. *Drug Deliv.* 9(1):55-62(2002)

4. Singh, R., Rachumallu, R., Bhatnagar, M., et al. In vitro effects of standardized extract of

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

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Bacopa monniera and its five individual active constituents on human P-glycoprotein activity
Xenobiotica 45(8)741-749(2015)

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