

Product Data Sheet

Product Name: Bacoside A3

Cat. No.: GC18312

Chemical Properties

Cas. No. 157408-08-7

Chemical Name N/A

SMILES CC1(O)CC(/C=C(C)/C)OC2(OC3)CC43C5(C)CCC6C(C)(C)C(OC7OC(CO)C(O)C(OC8OC(CO)C(O)C(O)C8O)C7OC9OC(CO)C(O)C9O)CCC6(C)C5CCC4C21

Formula C₄₇H₇₆O₁₈

M.Wt 929.1

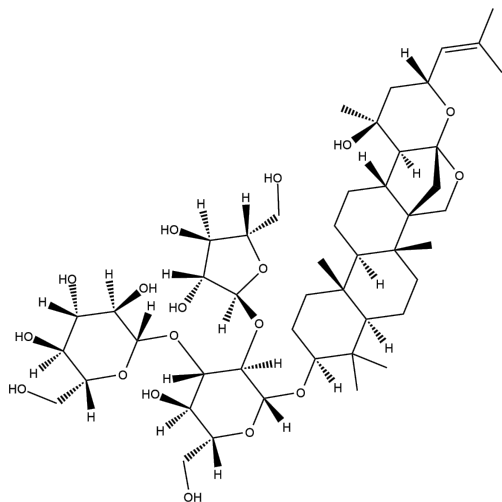
Solubility DMSO : 100 mg/mL (107.63 mM; Need ultrasonic)

Storage Store at -20°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

Bacoside A3 is a triterpenoid saponin first isolated from *B. monniera*. Bacoside A3 inhibits the ATP-binding cassette transporter P-glycoprotein (P-gp), decreasing efflux 4-fold compared with control in

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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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vitro. An extract containing bacoside A3 and bacopaside II (4 and 1.3 ug/mg extract, respectively) administered for eight days at a dose of 10-30 mg/kg reduces opioid withdrawal-induced depression in mice using the forced swim test. Bacoside A3 also has antioxidant properties following liver and kidney damage induced by street heroin in rats.

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