

Product Data Sheet

Product Name: Britannin
Cat. No.: GC35555

Chemical Properties

Cas. No. 33627-28-0

SMILES C[C@]12[C@@]([C@@H](C[C@@](O3)([H])[C@](C(C3=O)=C)([H])[C@@H]2OC(C)=O)C)([H])[C@@H](OC(C)=O)C[C@@H]1O

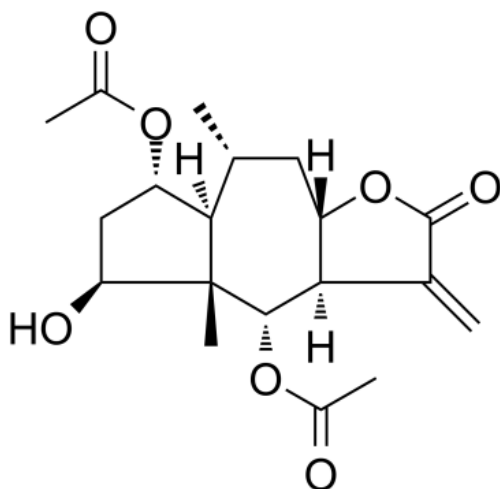
Formula $C_{19}H_{26}O_7$ M.Wt 366.41

Solubility DMSO : 250 mg/mL (682.30 mM; Need ultrasonic) 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

Britannin, isolated from *Inula aucheriana*, is a sesquiterpene lactone. Britannin induces apoptosis and autophagy by activating AMPK regulated by ROS in liver cancer cells. Britannin has anti-proliferative and anti-inflammatory activities[1][2][3].

[1]. Cui YQ The suppressive effects of Britannin (Bri) on human liver cancer through inducing

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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apoptosis and autophagy via AMPK activation regulated by ROS. Biochem Biophys Res Commun. 2018 Mar 11;497(3):916-923. [2]. Park HH, et al. Britanin suppresses LPS-induced nitric oxide, PGE2 and cytokine production via NF- κ B and MAPK inactivation in RAW 264.7 cells. Int Immunopharmacol. 2013 Feb;15(2):296-302. [3]. Moghadam MH, et al. Anti-proliferative activity and apoptotic potential of britannin, a sesquiterpene lactone from Inula aucheriana. Nat Prod Commun. 2012 Aug;7(8):979-80.

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