
Product Data Sheet

Product Name: Britannilactone (Desacetylinulicin)

Cat. No.: GC33572

Chemical Properties

Cas. No. 33620-72-3

SMILES O[C@H]1[C@@](C2=C)([H])[C@@](OC2=O)([H])CC(C)=C1[C@@H](C)CCCOFormula C₁₅H₂₂O₄

M.Wt 266.33

Solubility DMSO : 5 mg/mL (18.77 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**

Britannilactone(Desacetylinulicin) is a methanol extract of the dried flower of *Inula britannica* L. IC50 value: Target: A bioassay-guided isolation of the chloroform fraction of the *I. britannica* using an in vitro melanogenesis inhibition assay led to the isolation of sesquiterpenes, 1-O-acetylbritannilactone (1), britannilactone (2) and neobritannilactone B (3). Compounds 1 and 2 significantly reduced melanin production in a dose-dependent manner with IC50 values of 13.3 and 15.5 μM, respectively [1].

[1]. Choo SJ, et al. Hypo-pigmenting effect of sesquiterpenes from *Inula britannica* in B16 melanoma cells. *Arch Pharm Res.* 2014 May;37(5):567-74.

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