

Product Data Sheet

Product Name: Siaresinolic acid

Cat. No.: GC79485

Chemical Properties

Cas. No. 511-77-3

Formula $C_{30}H_{48}O_4$

M.Wt 472.7

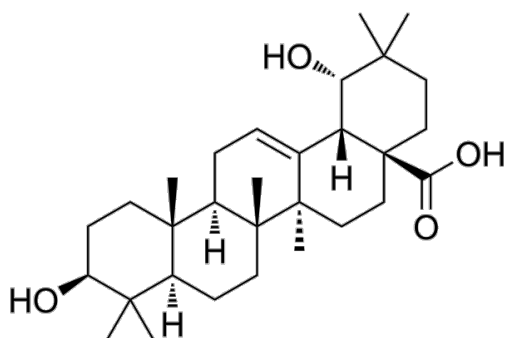
Solubility

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

Siaresinolic acid is a compound found in the leaves of *Sabicea grisea*. Siaresinolic acid shows antinociceptive and anti-inflammatory activity. Siaresinolic acid reduces nociceptive behavior by ATP-dependent potassium channel, inhibits leukocyte influx, plasma leakage, and proinflammatory mediator (TNF- α , IL-1 β) production. Siaresinolic acid does not induce cytotoxicity in murine macrophages, alter locomotor activity at high doses. Siaresinolic acid can be used for the research of

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

Product Data Sheet

pleurisy and pain [1].

In Vivo, Siaresinolic acid (0.1-10 mg/kg; i.p.; 1 hour before acetic acid injection) produces dose-dependent peripheral antinociception in the Acetic acid -induced writhing model, with a maximum 70.9% inhibition at 10 mg/kg^[1]. Siaresinolic acid (1 mg/kg; i.p.; 1 hour before formalin injection) selectively inhibits the inflammatory phase of formalin-induced nociception in mice^[1]. Siaresinolic acid (0.01-1 mg/kg; i.p.; 1 hour before carrageenan injection) dose-dependently inhibits acute inflammatory responses in Carrageenan -induced pleurisy, with 1 mg/kg producing >82% inhibition of key proinflammatory mediators^[1]. Siaresinolic acid (1 mg/kg; i.p.) does not produce central antinociception in the hot plate test in mice^[1].

In Vitro, Siaresinolic acid (1-200 µg/mL; 24 h) is non-cytotoxic to murine peritoneal macrophages [1].

References:

[1]. de Oliveira AM, et al. Antinociceptive and anti-inflammatory activity of the siaresinolic acid, a triterpene isolated from the leaves of *Sabicea grisea* Cham. & Schltdl. var. *grisea*. J Nat Med. 2015;69(2):232-240.

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