

Product Data Sheet

Product Name: Corylifol A

Cat. No.: GC13279

Chemical Properties

Cas. No. 775351-88-7

Chemical
Name

SMILES OC1=CC=C(C2=COC3=CC(O)=CC=C3C2=O)C=C1C/C=C(CC/C=C(C)/C)\C

Formula $C_{25}H_{26}O_4$ M.Wt 390.47

Solubility DMSO : 250 mg/mL (640.25 mM; Storage Store at -20°C
Need ultrasonic)

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.

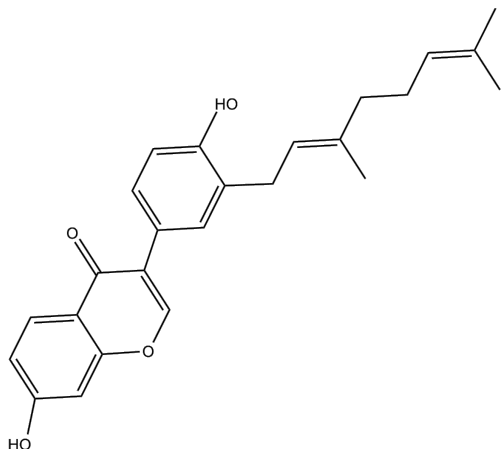
Caution: Product has not been fully validated for medical applications. For research use only.

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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Structure



Background

Corylifol A inhibits IL-6-induced STAT3 activation and phosphorylation, with an IC₅₀ of 0.81 μ M.

Corylifol A shows an inhibitory effect on IL-6-induced STAT3 promoter activity in Hep3B cells with IC₅₀ value of 0.81 ± 0.15 μ M, also inhibits STAT3 phosphorylation induced by IL-6 in Hep3B cells[1]. Corylifol A inhibits SARA PLpro in a dose-dependent manner with IC₅₀s ranging between 4.2 and 38.4 μ M[2]. Corylifol A is found to be a naturally occurring potent inhibitor of hCE2, with low K_i values ranging from 0.62 μ M to 3.89 μ M[3].

References:

- [1]. Lee SW, et al. Phenolic compounds isolated from Psoralea corylifolia inhibit IL-6-induced STAT3 activation. Planta Med. 2012 Jun;78(9):903-6.
- [2]. Kim DW, et al. Phenolic phytochemical displaying SARS-CoV papain-like protease inhibition from the seeds of Psoralea corylifolia. J Enzyme Inhib Med Chem. 2014 Feb;29(1):59-63.
- [3]. Li YG, et al. Fructus Psoraleae contains natural compounds with potent inhibitory effects towards human carboxylesterase 2. Fitoterapia. 2015 Jan 13;101C:99-106. d

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