

Product Data Sheet

Product Name: Lecanoric Acid

Cat. No.: GC18190

Chemical Properties

Cas. No. 480-56-8

Chemical Name 2,4-dihydroxy-6-methyl-benzoic acid, 4-carboxy-3-hydroxy-5-methylphenyl ester

SMILES CC1=CC(OC(C2=C(C)C=C(O)C=C2O)=O)=CC(O)=C1C(O)=O

Formula $C_{16}H_{14}O_7$ M.Wt 318.3

Solubility DMF: soluble, DMSO: soluble, Ethanol: soluble, Methanol: soluble
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.

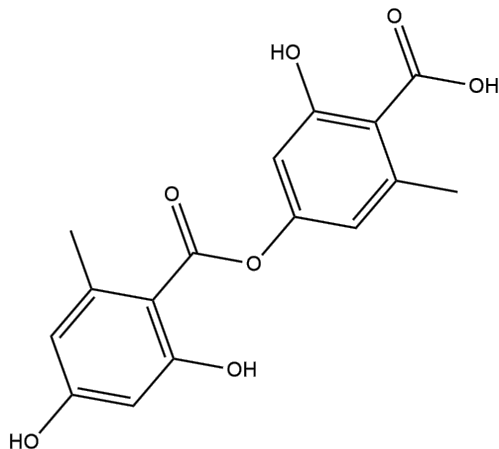
Caution: Product has not been fully validated for medical applications. For research use only.

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

Lecanoric acid is a naturally occurring depside polyphenol isolated from a variety of lichens. It is a potent antioxidant, surpassing ascorbic acid in a 2,2-diphenyl-1-picryl-hydrazyl-hydrate (DPPH) free radical scavenging assay (IC_{50} s = 424.51 and 6.42 μ g/ml for lecanoric and ascorbic acid, respectively). Lecanoric acid has antibacterial and antifungal activities with minimum inhibitory concentrations ranging from 0.5 to 1 mg/ml for a panel of fifteen microorganisms. In a cell viability assay, lecanoric acid exhibits antiproliferative activity against HeLa cells (IC_{50} = 123.97 μ g/ml). Lecanoric acid also exhibits antidiabetic and hypolipidemic properties.

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