

Product Data Sheet

Product Name: DiffRACTAic Acid

Cat. No.: GC43452

Chemical Properties

Cas. No. 436-32-8

SMILES O=C(O)C1=C(C(O)C(C)=C(OC(C2=C(OC)C(C)=C(OC)C=C2C)=O)C=C1C

Formula C₂₀H₂₂O₇

M.Wt 374.4

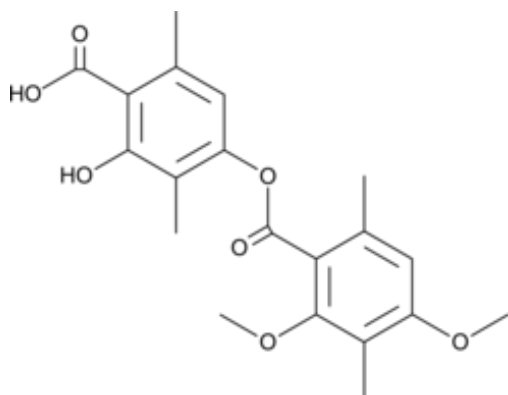
Solubility DMF: soluble, DMSO: soluble, Ethanol: soluble, Methanol: soluble

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.

Structure



Background

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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DiffRACTAIC acid is a lichen metabolite that has been found in *P. magellanica* and has diverse biological activities. It is cytotoxic to HCT116, HeLa, and MCF-7 cancer cells (IC₅₀s = 42.2, 64.6, and 93.4 μ M, respectively). DiffRACTAIC acid inhibits growth of *M. tuberculosis* (MIC = 41.7 μ M). In vivo, diffRACTAIC acid (25-200 mg/kg) reduces neutrophil infiltration, lipid peroxidation, myeloperoxidase (MPx) activity, and the number of gastric lesions as well as reverses decreases in superoxide dismutase (SOD) and glutathione peroxidase (GPx) activities induced by indomethacin in rat gastric mucosa. DiffRACTAIC acid also has analgesic activity, reducing acetic acid-induced writhing and increasing the pressure pain threshold in mice.

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