

Product Data Sheet

Product Name: β -Elemonic Acid

Cat. No.: GC41623

Chemical Properties

Cas. No. 28282-25-9

SMILES C/C(C)=C/CC[C@H](C(O)=O)[C@]1([H])CC[C@]([C@@]1(C)CC2)(C)C3=C2[C@]4(C)[C@](CC3)([H])C(C)(C)C(CC4)=O

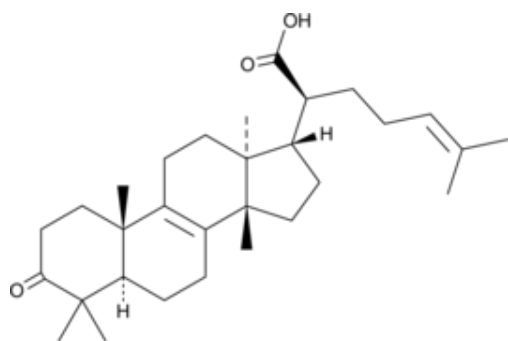
Formula C₃₀H₄₆O₃ M.Wt 454.7

Solubility DMF: 30 mg/ml, DMF:PBS (pH 7.2) Storage 4°C, protect from light
(1:3): 0.25
mg/ml, DMSO:20mg/ml, Ethanol: 5
mg/ml

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

β -Elemonic acid is a triterpene isolated from *Boswellia* (Burseraceae) that exhibits anticancer activity. It inhibits growth of non-small cell lung cancer (NSCLC) A549 cells (IC₅₀ = 6.92 μ M) in vitro. β -Elemonic acid induces apoptosis and cytotoxicity in A549 cells in a dose-dependent manner but has no effect on normal epithelial WI-38 cells. It inhibits phosphorylation of p42/44, MAPK/JNK, and p38 and induces production of reactive oxygen species (ROS) and COX-2 expression in vitro. β -Elemonic acid also inhibits prolyl endopeptidase (IC₅₀ = 39.74 μ M) in vitro.

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

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