Product Data Sheet

Product Name: Euscaphic acid
Cat. No.: GC38392

Chemical Properties

Cas. No.	53155-25-2		
SMILES	OC([C@]12[C@]([C@](O)([C@H](C)CC2)C)([H])C3=CC[C@@]([C@@]4([C@@](C(C)([C@H](O)[C@H](O)C4)C)([H])CC5)C)([H])[C@]5(C)[C@]3(C)CC1)=O		
Formula	$C_{30}H_{48}O_5$	M.Wt	488.7
Solubility	Soluble in DMSO	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ 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	Euscaphic acid		

Background

Euscaphic acid is a triterpene that has been found in *R. alceaefolius* and has diverse biological activities.[1,2,3] It inhibits the proliferation of CNE-1 and C666-1 nasopharyngeal carcinoma cells when used at concentrations of 5 and 10 ?g/ml.[1] Euscaphic acid inhibits acetylcholinesterase (AChE; IC_{50} = 35.9 ?M) and α-glucosidase (IC_{50} = 24.9 ?M).[2] It reduces the production of nitric oxide (NO) and levels of inducible nitric oxide synthase (iNOS) and COX-2 in LPS-stimulated RAW 264.7 cells.[3] Euscaphic acid (10 mg/kg) reduces serum IgE and IgG2a levels, ear tissue mast cell infiltration, and pruritis in a mouse model of difluoroethane- and 2,4-dinitrochlorobenzene-induced atopic dermatitis.[4]

1.Dai, W., Dong, P., Liu, J., et al.Euscaphic acid inhibits proliferation and promotes apoptosis of nasopharyngeal carcinoma cells by silencing the PI3K/AKT/mTOR signaling pathwayAm. J. Transl. Res.11(4)2090-2098(2019) 2.Ado, M.A., Maulidiani, M., Ismail, I.S., et al.Acetylcholinesterase and α-glucosidase inhibitory compounds from Callicarpa

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

maingayiNat. Prod. Res.35(17)2992-2996(2021) 3.Kim, I.-T., Ryu, S., Shin, J.-S., et al.Euscaphic acid isolated from roots of Rosa rugosa inhibits LPS-induced inflammatory responses via TLR4-mediated NF-κB inactivation in RAW 264.7 macrophagesJ. Cell. Biochem.113(6)1936-1946(2012) 4.Jeong, N.-H., Lee, S., Choi, Y.-A., et al.Inhibitory effects of euscaphic acid in the atopic dermatitis model by reducing skin inflammation and intense pruritusInflammation45(4)1680-1691(2022)

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