

Product Data Sheet

Product Name: Euphol Acetate

Cat. No.: GC46145

Chemical Properties

Cas. No. 13879-04-4

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

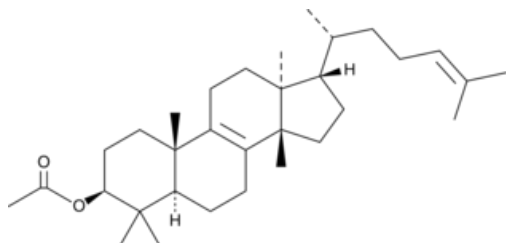
Formula C₃₂H₅₂O₂ M.Wt 468.8

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

Euphol acetate is a triterpenoid that has been found in Euphorbia species and has diverse biological activities.^{1,2,3} It reduces sodium fluorescein uptake by CHO cells expressing organic anion-transporting polypeptide 1B1 (OATP1B1) and OATP1B3 to 29.2 and 40.2% of controls, respectively, when used at a concentration of 10 µM.³ Euphol acetate (50 and 100 µg/ml) induces mortality in 40% of B. glabrata snails.²

[1. De Pascual Teresa, J., Urones, J.G., Marcos, I.S., et al. Triterpenes from Euphorbia broteri. Phytochemistry 26(6), 1767-1776 (1987). [2. Mata, R.C.S., de Mendonça, I.M.D., Vieira, L., et al. Molluscicidal activity of compounds isolated from Euphorbia conspicua N. E. Br. J. Braz. Chem. Soc.

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

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22(10), 1880-1887 (2011).|3. De Bruyn, T., van Westen, G.J.P., Ijzerman, A.P., et al. Structure-based identification of OATP1B1/3 inhibitors. Mol. Pharmacol. 83(6), 1257-1267 (2013).

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