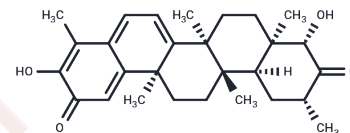


Tingenin B

Chemical Properties

CAS No. :	50656-68-3
Formula:	C ₂₈ H ₃₆ O ₄
Molecular Weight:	436.58
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Tingenin B is a potent anticancer agent due to its cytotoxic activity on cancer stem cells of breast cancer in vitro. Tingenin b was cytotoxic against MCF-7s (IC ₅₀ : 2.38 μM for 48 h) by inducing apoptosis. Endoplasmic reticulum stress was also found to be involved in tingenin b-induced cell death.
Targets(IC ₅₀)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2905 mL	11.4527 mL	22.9053 mL
5 mM	0.4581 mL	2.2905 mL	4.5811 mL
10 mM	0.2291 mL	1.1453 mL	2.2905 mL
50 mM	0.0458 mL	0.2291 mL	0.4581 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- Cevatemre B, Botta B, Mori M, Berardozzi S, Ingallina C, Ulukaya E. The plant-derived triterpenoid tingenin B is a potent anticancer agent due to its cytotoxic activity on cancer stem cells of breast cancer in vitro. *Chem Biol Interact.* 2016 Dec 25;260:248-255. doi: 10.1016/j.cbi.2016.10.001. Epub 2016 Oct 5. PubMed PMID: 27720947.
- Bavovada R, Blaskó G, Shieh HL, Pezzuto JM, Cordell GA. Spectral assignment and cytotoxicity of 22-hydroxytingenone from *Glyptopetalum sclerocarpum*. *Planta Med.* 1990 Aug;56(4):380-2. PubMed PMID: 2236293.
- Maregesi SM, Hermans N, Dhooghe L, Cimanga K, Ferreira D, Pannecouque C, Vanden Berghe DA, Cos P, Maes L, Vlietinck AJ, Apers S, Pieters L. Phytochemical and biological investigations of *Elaeodendron schlechteranum*. *J Ethnopharmacol.* 2010 Jun 16;129(3):319-26. doi: 10.1016/j.jep.2010.03.034. Epub 2010 Apr 3. PubMed PMID: 20371284.

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