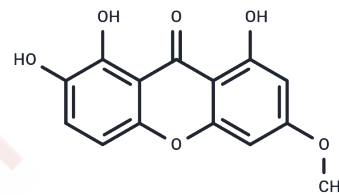


Gentiakochianin

Chemical Properties

CAS No. :	20882-75-1
Formula:	C ₁₄ H ₁₀ O ₆
Molecular Weight:	274.23
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Gentiakochianin (Swertianine), an anthrone from Gentianaceae, has vasodilatory activity, induces glioma cell cycle arrest in the G(2)/M phase and inhibits proliferation, significantly reduces oxLDL-induced cell damage in EA.hy926 cells, inhibits ROS levels and up-regulated the activity of Akt/CREB/eNOS signaling pathway inhibited by oxLDL.
Targets(IC50)	Epigenetic Reader Domain,NOS,Akt,ROS

Solubility Information

Solubility	DMSO: 1 mg/mL (3.65 mM),Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.6466 mL	18.2329 mL	36.4657 mL
5 mM	0.7293 mL	3.6466 mL	7.2931 mL
10 mM	0.3647 mL	1.8233 mL	3.6466 mL
50 mM	0.0729 mL	0.3647 mL	0.7293 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

Isakovic A, et al. Antiglioma action of xanthenes from *Gentiana kochiana*: Mechanistic and structure-activity requirements. *Bioorg Med Chem*. 2008 May 15;16(10):5683-94.

Tomić M, et al. Neuropharmacological evaluation of diethylether extract and xanthenes of *Gentiana kochiana*. *Pharmacol Biochem Behav*. 2005 Jul;81(3):535-42.

Chericoni S, Testai L, Calderone V, Flamini G, Nieri P, Morelli I, Martinotti E. The xanthenes gentiacaulein and gentiakochianin are responsible for the vasodilator action of the roots of *Gentiana kochiana*. *Planta Med*. 2003 Aug;69(8):770-2. PubMed PMID: 14531031.

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