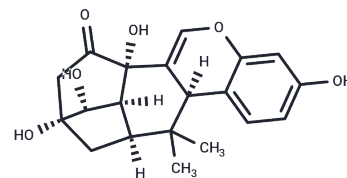


Miroestrol

Chemical Properties

CAS No. :	2618-41-9
Formula:	C ₂₀ H ₂₂ O ₆
Molecular Weight:	358.39
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Miroestrol is a potent phytoestrogen compound with multifaceted biological effects. It induces a mamrogenic effect and demonstrates neuroprotective properties, along with the ability to prevent bone loss in ovariectomized mice. Additionally, Miroestrol has been shown to reduce the risk of cancer [4].
In vivo	Miroestrol, administered subcutaneously at doses ranging from 0.1 to 1 mg/kg daily for 60 days, effectively prevents bone loss in ovariectomized mice by increasing the ratio of osteoprotegerin to receptor activator of nuclear factor kappa B ligand (osteof ormation/osteoresorption)[2]. Additionally, when given intraperitoneally at the same dosage daily for 8 weeks, it dose-dependently mitigates cognitive dysfunction induced by ovariectomy in mice[3]. Moreover, a daily subcutaneous administration of miroestrol at doses between 0.5 and 5 mg/kg for a period of 7 days has been shown to suppress hepatic CYP1A1 and CYP1A2 activity, as well as the expression of CYP1B1 mRNA and the protein expressions of CYP1A1/2 and CYP1B1 in mice treated with β -naphthoflavone[4].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7903 mL	13.9513 mL	27.9026 mL
5 mM	0.5581 mL	2.7903 mL	5.5805 mL
10 mM	0.279 mL	1.3951 mL	2.7903 mL
50 mM	0.0558 mL	0.279 mL	0.5581 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.

Reference

Kitisripanya T, et, al. A pilot pharmacokinetic study of miroestrol and deoxymiroestrol on rabbit sera using polyclonal antibody-based icELISA analysis. *Phytother Res.* 2018 Feb;32(2):365-369.

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