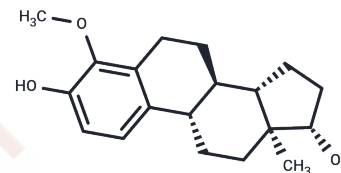


4-Methoxy 17 β -Estradiol

Chemical Properties

CAS No. :	26788-23-8
Formula:	C ₁₉ H ₂₆ O ₃
Molecular Weight:	302.41
Storage:	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	4-Methoxy-17-estradiol is one of the estrogen metabolites and a methylation metabolite of 4-hydroxyestradiol.
Targets(IC50)	Others, Reactive Oxygen Species, DNA/RNA Synthesis
In vitro	4-Methoxy-17-estradiol treatment significantly decreased cell growth and increased mitotic index. Elevation of ROS and SOD activity, with a concomitant decrease in the intracellular GSH/GSSG ratio, was also detected in 4-Methoxy-17-estradiol-treated cells. Quantitative comet assay showed increased oxidative DNA damage in the 4-Methoxy-17-estradiol-treated H1355 cells, which could be significantly reduced by the anti-oxidant N-acetylcysteine (NAC)[1].
In vivo	4-Methoxy-17-estradiol had much weaker estrogenic activity and have similar lipid-modulating effects compared to 4-hydroxyestradiol in ovariectomized female rats[3].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3068 mL	16.5338 mL	33.0677 mL
5 mM	0.6614 mL	3.3068 mL	6.6135 mL
10 mM	0.3307 mL	1.6534 mL	3.3068 mL
50 mM	0.0661 mL	0.3307 mL	0.6614 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

Cheng Y, et al. 4-Methoxyestradiol-induced oxidative injuries in human lung epithelial cells. *Toxicol Appl Pharmacol.* 2007 May 1;220(3):271-7.

Camargo MC, et al. Urinary estrogen metabolites and gastric cancer risk among postmenopausal women. *Cancer Rep (Hoboken).* 2021 Nov 11:e1574.

Wang P, Zhu BT. Unique effect of 4-hydroxyestradiol and its methylation metabolites on lipid and cholesterol profiles in ovariectomized female rats. *Eur J Pharmacol.* 2017 Apr 5;800:107-117.

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