

Zearalenone

Chemical Properties

CAS No. : 17924-92-4

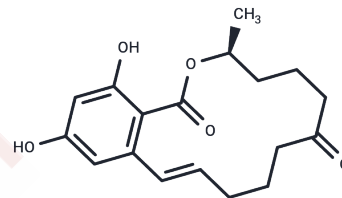
Formula: C₁₈H₂₂O₅

Molecular Weight: 318.36

Store at low temperature

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	Zearalenone (F2 toxin) is a mycotoxin produced mainly by fungi belonging to the genus <i>Fusarium</i> in foods and feeds. Possess oestrogenic activity in cattle, pigs and sheep, with low acute toxicity. Causes precocious development of mammae and other estrogenic effects in young gilts.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 252 mg/mL (791.56 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (15.71 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1411 mL	15.7055 mL	31.411 mL
5 mM	0.6282 mL	3.1411 mL	6.2822 mL
10 mM	0.3141 mL	1.5705 mL	3.1411 mL
50 mM	0.0628 mL	0.3141 mL	0.6282 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

Zinedine A, et al. Review on the toxicity, occurrence, metabolism, detoxification, regulations and intake of zearalenone: an oestrogenic mycotoxin. Food Chem Toxicol. 2007 Jan;45(1):1-18.

Richard JL, et al. Some major mycotoxins and their mycotoxicoses--an overview. Int J Food Microbiol. 2007 Oct 20; 119(1-2):3-10.

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