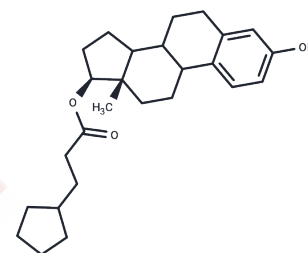


## Estradiol (cypionate)

## Chemical Properties

CAS No. :	313-06-4
Formula:	C <sub>26</sub> H <sub>36</sub> O <sub>3</sub>
Molecular Weight:	396.56
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	Estradiol cypionate (Depofemin), the 17 $\beta$ -cyclopentylpropionate ester of estradiol, inhibits ET-1 synthesis via estrogen receptor.
Targets(IC50)	Apoptosis, Estrogen Receptor/ERR, Estrogen/progestogen Receptor
In vivo	In the field of bovine medicine, Estradiol cypionate (ECP) serves a variety of functions, including the treatment of libido deficiency due to follicular cysts, persistent corpus luteum, pyometra, and retained placenta. ECP may also aid in mitigating high-risk postpartum diseases by stimulating uterine contractions (through direct action or by maintaining oxytocin receptor sites in the uterus); enhancing uterine immune function (by increasing uterine blood flow to attract more white blood cells (WBCs) to the site of infection and augmenting the movement of IgA and IgG for bacterial phagocytosis into the uterine cavity); and promoting uterine drainage (by delaying cervical closure). Estradiol cypionate is a synthetic ester of the natural estrogen, estradiol. Intramuscular administration of estradiol cypionate has been found to have the longest duration of action compared to other commonly used estradiol esters, lasting for 11 days, while estradiol benzoate and estradiol valerate have durations of 4-5 days and 7-8 days, respectively.

## Solubility Information

Solubility	Ethanol: 51 mg/mL (128.61 mM), Sonication is recommended. DMSO: 257.5 mg/mL (649.33 mM), Sonication is recommended. H <sub>2</sub> O: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (5.04 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

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	1mg	5mg	10mg
1 mM	2.5217 mL	12.6084 mL	25.2169 mL
5 mM	0.5043 mL	2.5217 mL	5.0434 mL
10 mM	0.2522 mL	1.2608 mL	2.5217 mL
50 mM	0.0504 mL	0.2522 mL	0.5043 mL

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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

Oriowo MA, et al. Contraception, 1980, 21(4), 415-424.

Overton MW, et al. J Am Vet Med Assoc, 2003, 223(6), 846-851.

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