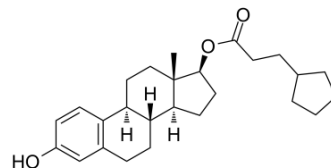


## Estradiol (cypionate)

<b>Cat. No.:</b>	HY-B1100
<b>CAS No.:</b>	313-06-4
<b>Molecular Formula:</b>	C <sub>26</sub> H <sub>36</sub> O <sub>3</sub>
<b>Molecular Weight:</b>	396.56
<b>Target:</b>	Estrogen Receptor/ERR
<b>Pathway:</b>	Others
<b>Storage:</b>	4°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : ≥ 30 mg/mL (75.65 mM)  
\* "≥" means soluble, but saturation unknown.

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	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

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.67 mg/mL (6.73 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.67 mg/mL (6.73 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Estradiol cypionate is a 17 β-cyclopentylpropionate ester of estradiol, inhibits ET-1 synthesis via estrogen receptor IC50 value: Target: estrogen receptor Estradiol cypionate is a synthetic ester, is a estrogen. Compared to other commonly used estradiol esters, via the intramuscular route, Estradiol cypionate is found to have the longest duration of action with a duration of ~11 days,

### CUSTOMER VALIDATION

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- J Hematol Oncol. 2019 Feb 22;12(1):19.
  - Biomaterials. 2018 Aug;173:58-70.
  - J Exp Clin Cancer Res. 2020 May 7;39(1):81.
  - Cell Death Dis. 2017 May 11;8(5):e2783.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## REFERENCES

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[1]. Feng X, et al. NMI inhibits cancer stem cell traits by downregulating hTERT in breast cancer. Cell Death Dis. 2017 May 11;8(5):e2783.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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