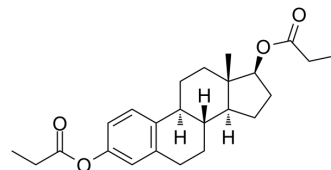


Estradiol dipropionate

Cat. No.:	HY-B2245		
CAS No.:	113-38-2		
Molecular Formula:	C ₂₄ H ₃₂ O ₄		
Molecular Weight:	384.51		
Target:	Estrogen Receptor/ERR; Progesterone Receptor		
Pathway:	Vitamin D Related/Nuclear Receptor		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 62.5 mg/mL (162.54 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.6007 mL	13.0036 mL	26.0071 mL
	5 mM	0.5201 mL	2.6007 mL	5.2014 mL
	10 mM	0.2601 mL	1.3004 mL	2.6007 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: ≥ 2.08 mg/mL (5.41 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (5.41 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Estradiol dipropionate is a combined estrogen-progesterone, acts as an estrogen and progesterone agonist^[1].

In Vivo

Treatment of Estradiol dipropionate (2µg per 100 g; single subcutaneous injection) and Chorionic gonadotropin (10 IU per 100 g; sc; twice a day) for 2 days, levels of β-catenin and GSK-3β in luminal and glandular epithelia are lower in Ovariectomized mice^[1].

Treatment of Estradiol dipropionate (2 µg per 100 g; once a week) and Chorionic gonadotropin ((10 IU per 100 g; once a day) for a month, the incidence of atypical endometrial hyperplasia is significantly higher, the level of β-catenin is slightly higher, and the expression of GSK-3β is lower in luminal and glandular epithelia^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. A G Gunin, et al. Uterine Response to Estradiol Under Action of Chorionic Gonadotropin in Mice. Int J Gynecol Cancer. Jul-Aug 2003;13(4):485-96.

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

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