Estradiol valerate

Cat. No.: HY-B0672

CAS No.: 979-32-8

Molecular Formula: $C_{23}H_{32}O_3$

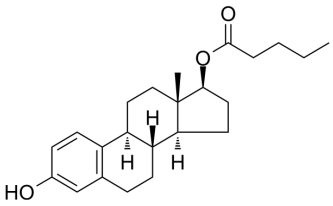
Molecular Weight: 356.5

Target: Estrogen Receptor/ERR

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 : ≥ 50 mg/mL (140.25 mM)

H_2O : < 0.1 mg/mL (insoluble)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.8050 mL	14.0252 mL	28.0505 mL
5 mM	0.5610 mL	2.8050 mL	5.6101 mL
10 mM	0.2805 mL	1.4025 mL	2.8050 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.67 mg/mL (7.49 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.67 mg/mL (7.49 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.67 mg/mL (7.49 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Estradiol valerate (β-Estradiol 17-valerate) is a synthetic estrogen widely used in combination with other steroid hormones in hormone replacement therapy agents.

IC_{50} & Target

Estrogen Receptor/ERR

In Vitro	Estradiol valerate (EV) is a synthetic estrogen widely used in combination with other steroid hormones in hormone replacement therapy drugs and is detected in natural waters. Estradiol valerate is a reproductive toxicant and estrogenic chemical in both male and female fish[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Lei, B., et al., beta-estradiol 17-valerate affects embryonic development and sexual differentiation in Japanese medaka (Oryzias latipes). Aquat Toxicol, 2013. 134-135: p. 128-34.

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