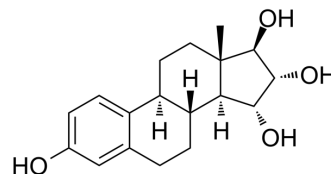


Estetrol

Cat. No.:	HY-15731		
CAS No.:	15183-37-6		
Molecular Formula:	C ₁₈ H ₂₄ O ₄		
Molecular Weight:	304.38		
Target:	Estrogen Receptor/ERR; Endogenous Metabolite		
Pathway:	Vitamin D Related/Nuclear Receptor; Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (328.54 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	3.2854 mL	16.4268 mL	32.8537 mL
		5 mM	0.6571 mL	3.2854 mL	6.5707 mL
10 mM		0.3285 mL	1.6427 mL	3.2854 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (8.21 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (8.21 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (8.21 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	Estetrol, a natural estrogen synthesized exclusively during pregnancy by the human fetal liver, is a selective nuclear estrogen receptor modulator. Estetrol exerts estrogenic actions on the endometrium or the central nervous system but presents antagonistic effects on the breast ^{[1][2]} .
IC₅₀ & Target	Estrogen receptor ^[1]

REFERENCES

- [1]. Valéra MC, et al. Effect of estetrol, a selective nuclear estrogen receptor modulator, in mouse models of arterial and venous thrombosis. *Mol Cell Endocrinol*. 2018 Dec 5;477:132-139.
- [2]. Montt-Guevara MM, et al. Estetrol Modulates Endothelial Nitric Oxide Synthesis in Human Endothelial Cells. *Front Endocrinol (Lausanne)*. 2015 Jul 22;6:111.
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Caution: Product has not been fully validated for medical applications. For research use only.

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