

## Equilin

## Chemical Properties

CAS No. : 474-86-2

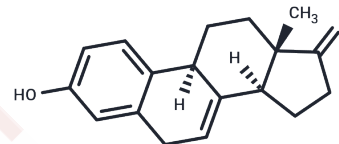
Formula: C<sub>18</sub>H<sub>20</sub>O<sub>2</sub>

Molecular Weight: 268.35

Storage: Store at low temperature, Keep away from direct sunlight

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	Equilin (7-Dehydroestrone) is a neurotrophic estrogenic steroid with vasodilatory activity that increases monocyte-endothelial adhesion through NF-κB signalling. Equilin similarly relaxes mesenteric arterial resistance by blocking Ca <sup>2+</sup> entry into smooth muscle.
Targets(IC50)	Estrogen Receptor/ERR, Calcium Channel
In vitro	In conjugated equine estrogen, equilin increases monocyte-endothelial adhesion via NF-κB signaling[2].

## Solubility Information

Solubility	DMSO: 80 mg/mL (298.12 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (12.3 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	3.7265 mL	18.6324 mL	37.2648 mL
5 mM	0.7453 mL	3.7265 mL	7.453 mL
10 mM	0.3726 mL	1.8632 mL	3.7265 mL
50 mM	0.0745 mL	0.3726 mL	0.7453 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

David K, De Jongh SE. Some biological properties of equilin. *Biochem J.* 1935 Feb;29(2):371-7.

Ito F, et al. Equilin in conjugated equine estrogen increases monocyte-endothelial adhesion via NF- $\kappa$ B signaling. *PLoS One.* 2019;14(1):e021146. Published 2019 Jan 30.

Brinton RD, et al. Equilin, a principal component of the estrogen replacement therapy premarin, increases the growth of cortical neurons via an NMDA receptor-dependent mechanism. *Exp Neurol.* 1997;147(2):211-220.

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