Equilin

Cat. No.: HY-B1176

CAS No.: 474-86-2

Molecular Formula: $C_{18}H_{20}O_2$

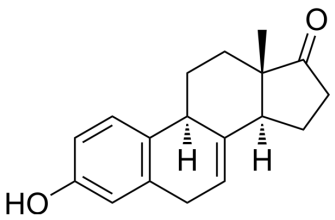
Molecular Weight: 268.35

Target: Estrogen Receptor/ERR

Pathway: Vitamin D Related/Nuclear Receptor

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 (372.65 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	3.7265 mL	18.6324 mL	37.2648 mL
	5 mM	0.7453 mL	3.7265 mL	7.4530 mL
	10 mM	0.3726 mL	1.8632 mL	3.7265 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: ≥ 2.5 mg/mL (9.32 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (9.32 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (9.32 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Equilin (7-Dehydroestrone) is an important member of the large group of oestrogenic substances and is chemically related to menformon (oestrone). Equilin increases the growth of cortical neurons via an NMDA receptor-dependent mechanism[1] [2].

In Vitro

Equilin in conjugated equine estrogen increases monocyte-endothelial adhesion via NF-κB signaling[3].

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

REFERENCES

[1]. David K, et al. Some biological properties of equilin. Biochem J. 1935;29(2):371-377.

[2]. 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.

[3]. Ito F, et al. Equilin in conjugated equine estrogen increases monocyte-endothelial adhesion via NF-κB signaling. PLoS One. 2019;14(1):e0211462. Published 2019 Jan 30.

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