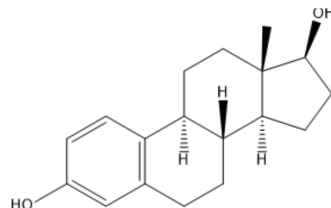


Estradiol (Standard)

| | |
|--------------------|---|
| Cat. No.: | HY-B0141R |
| CAS No.: | 50-28-2 |
| Molecular Formula: | C ₁₈ H ₂₄ O ₂ |
| Molecular Weight: | 272.38 |
| Target: | Estrogen Receptor/ERR; Endogenous Metabolite; Bacterial |
| Pathway: | Vitamin D Related/Nuclear Receptor; Metabolic Enzyme/Protease; Anti-infection |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |



SOLVENT & SOLUBILITY

In Vitro

DMSO : 62.5 mg/mL (229.46 mM; ultrasonic and warming and heat to 60°C)
 Ethanol : 20 mg/mL (73.43 mM; Need ultrasonic)

| Preparing Stock Solutions | Solvent | Mass | 1 mg | 5 mg | 10 mg |
|---------------------------|---------------|------|-----------|------------|------------|
| | Concentration | | | | |
| | 1 mM | | 3.6713 mL | 18.3567 mL | 36.7134 mL |
| | 5 mM | | 0.7343 mL | 3.6713 mL | 7.3427 mL |
| | 10 mM | | 0.3671 mL | 1.8357 mL | 3.6713 mL |

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

BIOLOGICAL ACTIVITY

Description

Estradiol (Standard) is the analytical standard of Estradiol. This product is intended for research and analytical applications. Estradiol (β -Estradiol) is a steroid hormone and the major female sex hormone. Estradiol can up-regulate the expression of neural markers of human endometrial stem cells (hEnSCs) and promote their neural differentiation. Estradiol can be used for the research of cancers, neurodegenerative diseases and neural tissue engineering^{[1][2]}.

IC₅₀ & Target

Human Endogenous Metabolite

CUSTOMER VALIDATION

- Neuro Oncol. 2024 Jan 5;26(1):137-152.
- Nat Chem Biol. 2022 Aug 18.
- Biosens Bioelectron. 12 July 2022, 114548.

-
- Theranostics. 2020 Aug 29;10(24):10874-10891.
 - Sci Total Environ. 2024 May 25:173419.

See more customer validations on www.MedChemExpress.com

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

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