abcam

Product datasheet

17beta-Estradiol, Selective agonist of ER receptor ab120657

18 References 2 Images

Overview

Product name 17beta-Estradiol, Selective agonist of ER receptor

Description Selective agonist of ER receptor

Biological description Selective agonist of ER receptor. Binds to ERα and ERβ receptors (K_i values are 0.13 and 0.12

nM, respectively). Agonist at the GPR30 receptor, activates Pl₃K.

Purity > 99% **CAS Number** 50-28-2

Chemical structure

CH₃OH

Properties

Chemical name 17β-Estra-1,3,5(10)-triene-3,17-diol

PubChem identifier 5757

Storage instructions Store at Room Temperature. The product can be stored for up to 12 months.

Solubility overview Soluble in DMSO to 100 mM and in ethanol to 75 mM

Handling Wherever possible, you should prepare and use solutions on the same day. However, if you need

to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and

prior to opening the vial we recommend that you allow your product to equilibrate to room

temperature for at least 1 hour.

Toxic, refer to SDS for further information.

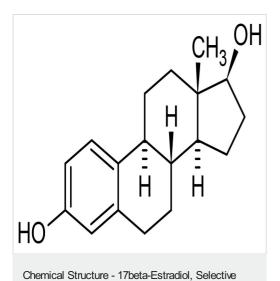
Need more advice on solubility, usage and handling? Please visit our **frequently asked**

questions (FAQ) page for more details.

Source Synthetic

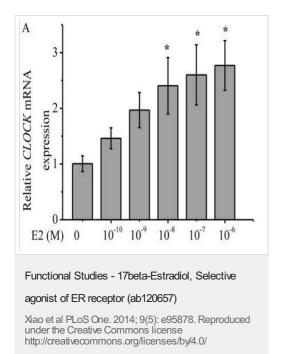
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Images



agonist of ER receptor (ab120657)

2D chemical structure image of ab120657, 17beta-Estradiol, Selective agonist of ER receptor



$\ensuremath{\mathsf{ER}\alpha}$ ligands regulate the expression of CLOCK at the transcription level.

Analysis of CLOCK mRNA levels in MCF-7 cells by real-time PCR. MCF-7 cells were cultured in phenol red free medium and charcoal striped FCS medium for 2 days before being treated with E2 and the expression of *CLOCK* was then analyzed by real-time PCR.

E2 = 17beta-Estradiol.

(From Figure 3A of Xiao et al).

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

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