Certificate of Analysis

www.tocris.com

Product Name: *a*-Estradiol

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Storage:

2. ANALYTICAL DATA

Mass Spectrum:

Optical Rotation: Microanalysis:

HPLC:

¹H NMR:

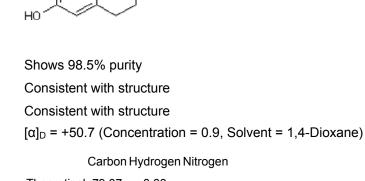
CAS Number: 57-91-0 IUPAC Name: (17a)-Estra-1,3,5(10)-triene-3,17-diol

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility:

C₁₈H₂₄O₂. 272.38 White solid DMSO to 100 mM ethanol to 100 mM Store at RT

Batch Molecular Structure:



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Theoretical 79.37 8.88 Found 79.3 8.91

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Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

| bio-techne.com | North America | China | Europe Middle East Africa | Rest of World |
|---|---------------------|--|---------------------------|--|
| info@bio-techne.com techsupport@bio-techne.com | Tel: (800) 343 7475 | info.cn@bio-techne.com Tel: +86 (21) 52380373 | Tel: +44 (0)1235 529449 | www.tocris.com/distributors Tel:+1 612 379 2956 |

Print Date: Jul 12th 2022

Catalog No.: 2823 EC Number: 200-354-8

Batch No.: 4

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Product Information

www.tocris.com

Print Date: Jul 12th 2022

Product Name: a-Estradiol

Catalog No.: 2823

Batch No.: 4

EC Number: 200-354-8

CAS Number: 57-91-0 **IUPAC Name:** (17a)-Estra-1,3,5(10)-triene-3,17-diol

Description:

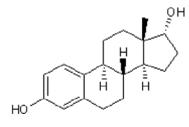
α-Estradiol is an endogenous estrogen receptor ligand (Ki values are 0.2 and 1.2 nM for ERa and ERB receptors respectively). β-Estradiol also available.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₈H₂₄O₂. Batch Molecular Weight: 272.38 Physical Appearance: White solid

Minimum Purity: ≥97%

Batch Molecular Structure:



Storage: Store at RT

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 100 mM ethanol to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Toran-Allerand et al (2002) ER-X: a novel, plasma membrane-associated, putative estrogen receptor that is regulated during development and after ischemic brain injury. J.Neurosci. 22 8391. PMID: 12351713.

Kuiper et al (1997) Comparison of the ligand binding specificity and transcript tissue distribution of estrogen receptors α and β . Endocrinology 138 863. PMID: 9048584.

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