

Certificate of Analysis

www.tocris.com

Product Name: Estropipate

Catalog No.: 3588

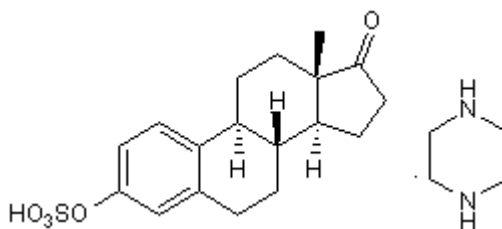
Batch No.: 1

CAS Number: 7280-37-7

IUPAC Name: Piperazine estrone sulfate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{18}H_{22}O_5S \cdot C_4H_{10}N_2$
Batch Molecular Weight: 436.56
Physical Appearance: White solid
Solubility: water to 5 mM
 1.1eq. NaOH to 100 mM
 DMSO to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 97.2% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: $[\alpha]_D = +92$ (Concentration = 1, Solvent = 0.4%NaOH)
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	60.52	7.39	6.42
Found	60.7	7.33	6.43

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

Product Name: Estropipate

Catalog No.: 3588

Batch No.: 1

CAS Number: 7280-37-7

IUPAC Name: Piperazine estrone sulfate

Description:

Estrogen receptor agonist. Also inhibits organic anion transporting polypeptide 1B1 (OATP1B1) (IC₅₀= 70 nM).

Physical and Chemical Properties:

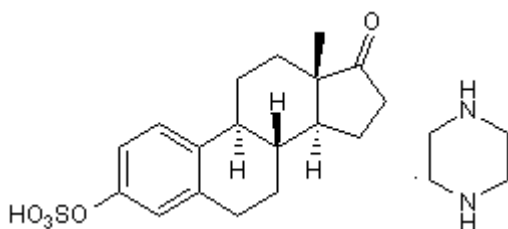
Batch Molecular Formula: C₁₈H₂₂O₅S.C₄H₁₀N₂

Batch Molecular Weight: 436.56

Physical Appearance: White solid

Minimum Purity: >97%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water to 5 mM

1.1eq. NaOH to 100 mM

DMSO 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:

Williams et al (2004) Estrogen regulation of the cytochrome P450 3A subfamily in humans. *J.Pharmacol.Exp.Ther.* **311** 728. PMID: 15282264.

Obaidat et al (2009) A cell-based high-throughput assay to identify inhibitors of organic anion transporting polypeptides 1B1 and 1B3. *FASEB J.* **23** 748.

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956