TOCRIS a biotechne brand

Print Date: Jan 27th 2020

Certificate of Analysis

www.tocris.com

Batch No.: 2

Catalog No.: 3705

Product Name: Endoxifen

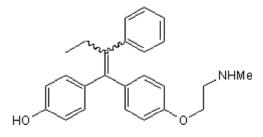
CAS Number: 110025-28-0

IUPAC Name: (*E/Z*)-4-[1-[4-[2-(Methylamino)ethoxy]phenyl]-2-phenyl-1-buten-1-yl]-phenol

1. PHYSICAL AND CHEMICAL PROPERTIES

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

 $C_{25}H_{27}NO_2.\frac{1}{2}H_2O$ 382.5 White solid DMSO to 100 mM Store at +4°C



2. ANALYTICAL DATA

TLC: HPLC: ¹H NMR: Mass Spectrum: Microanalysis: R_f = 0.21 (Dichloromethane-2M NH3:Methanol [25:1]) Shows >99.5% purity Consistent with structure Consistent with structure

Carbon Hydrogen Nitrogen Theoretical 78.5 7.38 3.66 Found 78.9 7.31 3.8

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

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Product Information

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Product Name: Endoxifen

CAS Number: 110025-28-0

(E/Z)-4-[1-[4-[2-(Methylamino)ethoxy]phenyl]-2-phenyl-1-buten-1-yl]-phenol

Description:

IUPAC Name:

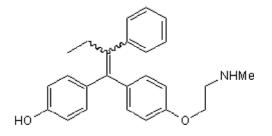
Estrogen receptor α (ER α) ligand; potent antiestrogen. Metabolite of tamoxifen (Cat. No. 0999). Primary metabolite responsible for the effectiveness of tamoxifen in ER-positive breast cancer.

Physical and Chemical Properties:

Batch Molecular Formula: C₂₅H₂₇NO₂.½H₂O Batch Molecular Weight: 382.5 Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at +4°C

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

Catalog No.: 3705

Solubility & Usage Info:

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:

Wu et al (2011) Estrogen receptor-beta sensitizes breast cancer cells to the anti-estrogenic actions of endoxifen. Breast Cancer Res. **13** R27. PMID: 21392396.

Wu et al (2009) The tamox. metabolite, endoxifen, is a potent antiestrogen that targets estrogen receptor a for degradation in breast cancer cells. Cancer Res. 69 1722. PMID: 19244106.

Lim et al (2006) Endoxifen, a secondary metabolite of tamoxifen, and 4-OH-tamoxifen induce similar changes in global gene expression patterns in MCF-7 breast cancer cells. J.Pharmacol.Exp.Ther. **318** 503. PMID: 16690721.

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