

Certificate of Analysis

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Product Name: RU 58668

Catalog No.: 3224

Batch No.: 1

CAS Number: 151555-47-4

IUPAC Name: (11 β ,17 β)-11-[[4-[[5-[(4,4,5,5,5-Pentafluoropentyl)sulfonyl]pentyl]oxy]phenylestra-1,3,5,(10)-triene-3,17-diol

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₄F₄₃O₅S₁·½H₂O

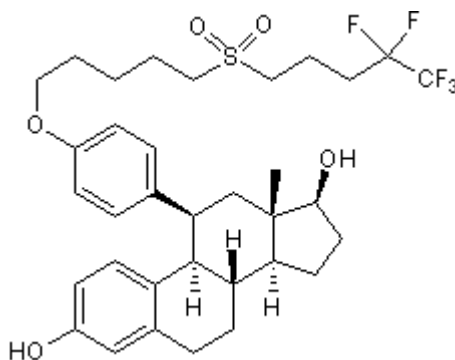
Batch Molecular Weight: 663.26

Physical Appearance: Pale yellow solid

Solubility: DMSO to 100 mM
ethanol to 100 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 95.4% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

	Carbon	Hydrogen	Nitrogen
Theoretical	61.57		6.61
Found	61.32		6.8

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

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Description:

Pure antiestrogen that downregulates estrogen receptor expression (IC₅₀ = 0.04 nM). Displays potent antiproliferative activity in vitro (IC₅₀ = 0.035 - 0.09 nM in MCF-7 cells) and causes long term regression of tamoxifen-resistant MCF-7 xenografts in vivo.

Physical and Chemical Properties:

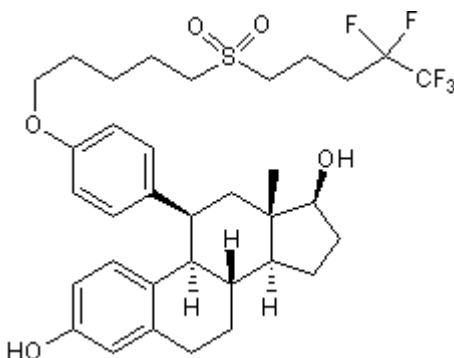
Batch Molecular Formula: C₃₄F₄₃F₅O₅S.¼H₂O

Batch Molecular Weight: 663.26

Physical Appearance: Pale yellow solid

Minimum Purity: >95%

Batch Molecular Structure:



References:

Van de Velde et al (1996) RU 58668: Further *in vitro* and *in vivo* pharmacological data related to its antitumoral activity. J.Steroid Molec.Biol. **59** 449.

Muller et al (1998) Partial antagonism between steroidal and nonsteroidal antiestrogens in human breast cancer cell lines. Cancer Res. **58** 263. PMID: 9443403.

Ameller et al (2004) Drug delivery systems for oestrogenic hormones and antagonists: the need for selective targeting in estradiol-dependent cancers. J.Steroid Molec.Biol. **92** 1.

Storage: Store at +4°C

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.

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