

**Product Name:** U 73343

**Catalog No.:** 4133

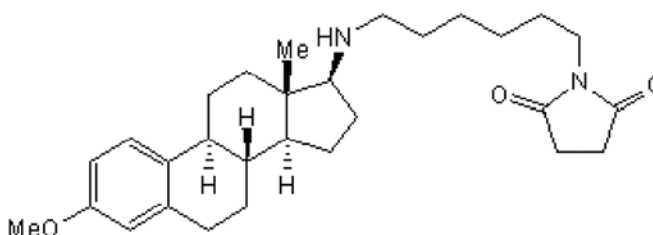
**Batch No.:** 4

CAS Number: 142878-12-4

IUPAC Name: 1-[6-[[[(17 $\beta$ )-3-Methoxyestra-1,3,5(10)-trien-17-yl]amino]hexyl]-2,5-pyrrolidinedione

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>29</sub>H<sub>42</sub>N<sub>2</sub>O<sub>3</sub>·¼H<sub>2</sub>O  
**Batch Molecular Weight:** 471.16  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 10 mM with gentle warming  
 ethanol to 5 mM with gentle warming  
**Storage:** Store at RT  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.42 (Dichloromethane:Methanol [9:1])  
**HPLC:** Shows 99.1% purity  
<sup>1</sup>H NMR: Consistent with structure  
 Mass Spectrum: Consistent with structure  
 Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	73.93	9.09	5.95
Found	74.01	9.07	5.98

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

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**Description:**

Analog of U 73122; can be used as a negative control. Inhibits Panx1 currents in HEK cells. Also inhibits vasopressin- and GTPyS-induced Ca<sup>2+</sup> influx in hepatocytes. Active Analog also available.

**Physical and Chemical Properties:**

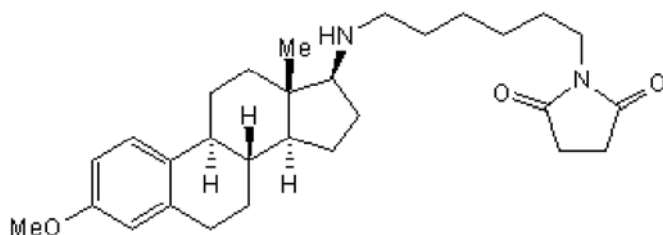
Batch Molecular Formula: C<sub>29</sub>H<sub>42</sub>N<sub>2</sub>O<sub>3</sub>·½H<sub>2</sub>O

Batch Molecular Weight: 471.16

Physical Appearance: White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at RT

**Solubility & Usage Info:**

DMSO to 10 mM with gentle warming  
ethanol to 5 mM with gentle warming

**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:**

**Kataoka et al** (2009) Activation of P2X<sub>7</sub> receptors induces CCL3 production in microglial cells through transcription factor NFAT. *J.Neurochem.* **108** 115. PMID: 19014371.

**Ma et al** (2009) Pharmacological characterization of pannexin-1 currents expressed in mammalian cells. *J.Pharmacol.Exp.Ther.* **328** 409. PMID: 19023039.

**Muto et al** (1997) The putative phospholipase C inhibitor U73122 and its negative control, U73343, elicit unexpected effects on the rabbit parietal cell. *J.Pharmacol.Exp.Ther.* **282** 1379. PMID: 9316850.

**Berven and Barritt** (1995) Evidence obtained using single hepatocytes for inhibition by the phospholipase C inhibitor U73122 of store-operated Ca<sup>2+</sup> inflow. *Biochem.Pharmacol.* **49** 1373. PMID: 7763279.

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