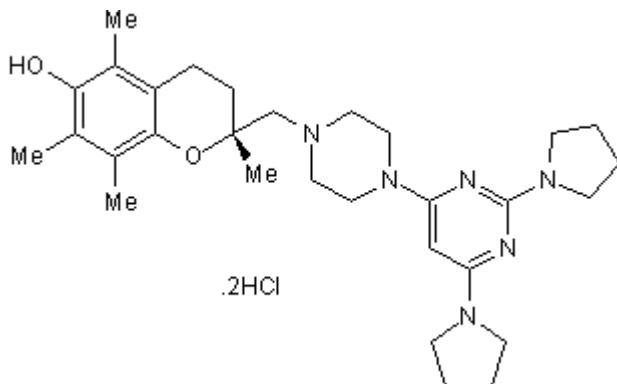


**Certificate of Analysis**[www.tocris.com](http://www.tocris.com)**Product Name:** U 83836E**Catalog No.:** 2750**Batch No.:** 1**CAS Number:** 137018-55-4**IUPAC Name:** (2*R*)-2-[[4-(2,6-Di-1-pyrrolidinyl-4-pyrimidinyl)-1-piperazinyl]methyl]-3,4-dihydro-2,5,7,8-tetramethyl-2*H*-1-benzopyran-6-ol dihydrochloride**1. PHYSICAL AND CHEMICAL PROPERTIES****Batch Molecular Formula:** C<sub>30</sub>H<sub>44</sub>N<sub>6</sub>O<sub>2</sub>.2HCl**Batch Molecular Weight:** 593.63**Physical Appearance:** White solid**Solubility:** water to 50 mM  
ethanol to 75 mM**Storage:** Desiccate at -20°C**Batch Molecular Structure:****2. ANALYTICAL DATA****HPLC:** Shows >99.4% purity**Mass Spectrum:** Consistent with structure

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

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**Description:**

Free radical scavenger and antioxidant; second generation lazaroid that inhibits iron-dependent lipid peroxidation ( $IC_{50} = 1.5 \mu M$ ). Displays neuroprotective activity in a mouse head injury model (MHI) and causes a reduction in cyanide-induced cell death in rat cortical neurons.

**Physical and Chemical Properties:**

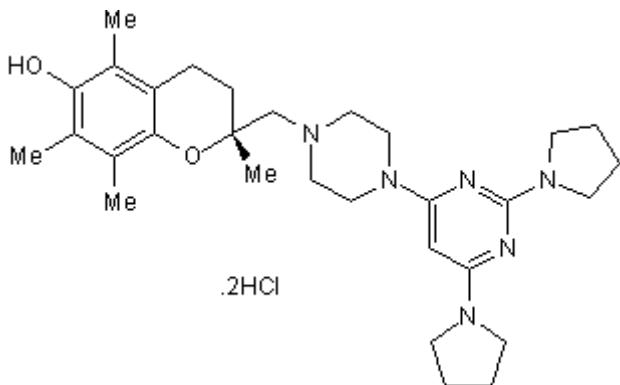
Batch Molecular Formula:  $C_{30}H_{44}N_6O_2 \cdot 2HCl$

Batch Molecular Weight: 593.63

Physical Appearance: White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Desiccate at -20°C

**Solubility & Usage Info:**

water to 50 mM  
ethanol to 75 mM

CAUTION - This product is hygroscopic and we recommend that it is desiccated upon arrival. Solutions should be made up as soon as the vial is opened.

**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:**

**Jacobsen et al** (1992) 2-(aminomethyl)chromans that inhibit iron-dependent lipid peroxidation and protect against central nervous system trauma and ischemia. *J.Med.Chem.* **35** 4464. PMID: 1447746.

**Altavilla et al** (1998) Inhibition of tumour necrosis factor and reversal of endotoxin-induced shock by U-83836E, a 'second generation' lazaroid in rats. *Br.J.Pharmacol.* **124** 1293. PMID: 9720803.

**Vignes and Hugon** (2006) In vitro efficacy of three lazaroids in a model of acute chemical neuronal hypoxia. *Neurosci.Lett.* **407** 171. PMID: 16973271.

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