

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: C₃₀H₄₄N₆O₂·2HCl

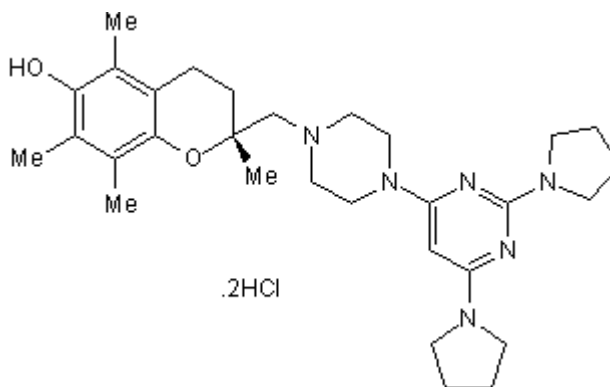
Batch Molecular Weight: 593.63

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 (IC₅₀ = 1.5 μM). 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:

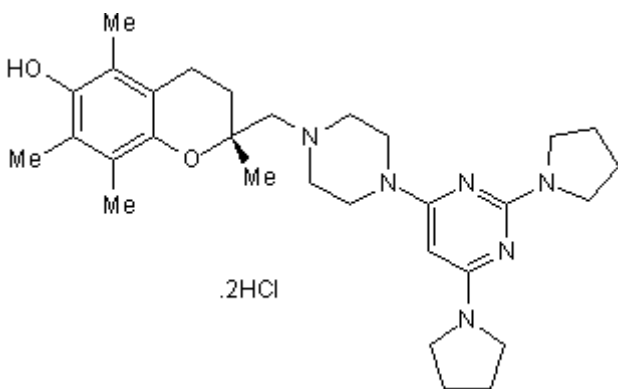
Batch Molecular Formula: C₃₀H₄₄N₆O₂.2HCl

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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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