

Product Name: U 18666A

Catalog No.: 1638

Batch No.: 1

CAS Number: 3039-71-2

IUPAC Name: (3β)-3-[2-(Diethylamino)ethoxy]androst-5-en-17-one hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₅H₄₁NO₂.HCl .¼H₂O

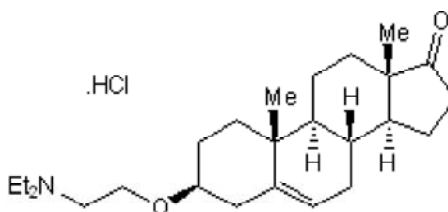
Batch Molecular Weight: 428.57

Physical Appearance: White solid

Solubility: water to 100 mM
ethanol to 100 mM
DMSO to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.38 (Dichloromethane:Methanol:Ammonia soln. [9:1:0.0.1])

Melting Point: At 203°C

¹H NMR: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	70.06	10	3.27
Found	69.84	10.14	3.21

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

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Description:

Inhibitor of cholesterol synthesis and cellular transport, and weak inhibitor of hedgehog (Hh) signaling. Reduces serum sterol levels in rats in vivo.

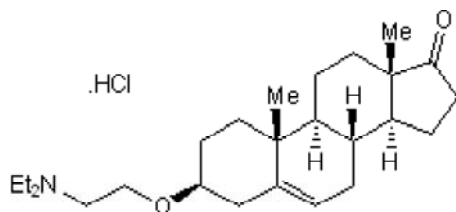
Physical and Chemical Properties:

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Batch Molecular Weight: 428.57

Physical Appearance: White solid

Batch Molecular Structure:



Storage: Desiccate at RT

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

Solubility & Usage Info:

water to 100 mM

ethanol to 100 mM

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.

Other Information:

INFORMATION FOR CUSTOMERS IN THE UK ONLY

This product is a Schedule 4.2 Home Office controlled substance and customers in the UK are required to hold the relevant licence or be exempt from restrictions in order to purchase and possess this material.

References:

Incardona et al (2000) Cyclopamine inhibition of sonic hedgehog signal transduction is not mediated through effects on cholesterol transport. *Dev.Biol.* **224** 440. PMID: 10926779.

Liscum and Faust (1989) The intracellular transport of low density lipoprotein-derived cholesterol is inhibited in Chinese hamster ovary cells cultured with 3- β -[2-(diethylamino)ethoxy]androst-5-en-17-one. *J.Biol.Chem.* **264** 11796. PMID: 2745416.

Cenedella et al (1980) Concentration-dependent effects of AY-9944 and U18666A on sterol synthesis in brain. *Biochem.Pharmacol.* **29** 2751. PMID: 6159896.

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