

Certificate of Analysis

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Product Name: U 92016A

Catalog No.: 2739

Batch No.: 1

CAS Number: 149654-41-1

IUPAC Name: (8*R*)-8-(Dipropylamino)-6,7,8,9-tetrahydro-3*H*-benz[e]indole-2-carbonitrile hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₂₅N₃·HCl
Batch Molecular Weight: 331.88
Physical Appearance: White solid
Solubility: water to 10 mM
DMSO to 100 mM
ethanol to 10 mM
Storage: Desiccate at RT

2. ANALYTICAL DATA

TLC: R_f = 0.25 (Dichloromethane:Methanol [9:1])
Melting Point: At 268°C(dec)
HPLC: Shows >99.2% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = +105 (Concentration = 0.15, Solvent = Methanol)
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	68.76	7.9	12.66
Found	68.41	7.95	12.64

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

Product Information

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Description:

Selective 5-HT_{1A} receptor agonist that displays high intrinsic activity (K_i values are 0.4, 7.7 and 36 nM for 5-HT_{1A}, 5-HT_{1D} and D₂ receptors respectively and > 1000 nM for 5-HT₂, D₁, α₁ and α₂ receptors). Produces hypothermia, hypotension and 5-HT behavioral syndrome following p.o. administration.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₉H₂₅N₃.HCl

Batch Molecular Weight: 331.88

Physical Appearance: White solid

Minimum Purity: >99%

Storage: Desiccate at RT

Solubility & Usage Info:

water to 10 mM
DMSO to 100 mM
ethanol to 10 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.

References:

Romero *et al* (1993) Novel 2-substituted tetrahydro-3*H*-benz[e]indolamines: highly potent and selective agonists acting at the 5-HT_{1A} receptor as possible anxiolytics and antidepressants. *J.Med.Chem.* **36** 2066. PMID: 8101876.

McCall *et al* (1994) Characterization of U-92016A as a selective, orally active, high intrinsic activity 5-hydroxytryptamine_{1A} agonist. *J.Pharmacol.Exp.Ther.* **271** 875. PMID: 7965808.

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