

Certificate of Analysis

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Product Name: DAU 5884 hydrochloride

Catalog No.: 2096

Batch No.: 1

CAS Number: 131780-48-8

IUPAC Name: 8-Methyl-8-azabicyclo-3-endo[3.2.1]oct-3-yl-1,4-dihydro-2-oxo-3(2*H*)-quinazolinecarboxylic acid ester hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₂₁N₃O₃·HCl·H₂O

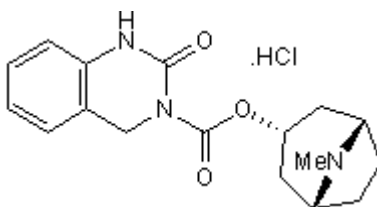
Batch Molecular Weight: 369.85

Physical Appearance: White solid

Solubility: water to 50 mM
DMSO to 100 mM

Storage: Desiccate at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

Melting Point: Between 281 - 283°C(dec)

HPLC: Shows >99.6% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	55.21	6.54	11.36
Found	55.01	6.57	11.24

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

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Description:

Selective muscarinic M₃ receptor antagonist. In bovine tracheal smooth muscle, inhibits methacholine-dependent effects on cell proliferation and muscle contractility.

Physical and Chemical Properties:

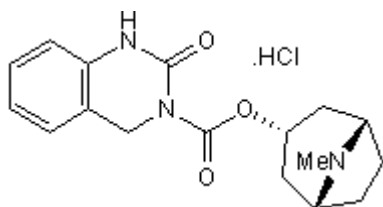
Batch Molecular Formula: C₁₇H₂₁N₃O₃.HCl.H₂O

Batch Molecular Weight: 369.85

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at +4°C

Solubility & Usage Info:

water to 50 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.

References:

Doods et al (1993) Characterization of muscarinic receptors in guinea-pig uterus. *Eur.J.Pharmacol.* **250** 223. PMID: 8112383.

Roffel et al (1993) Cholinergic contraction of the guinea pig lung strip is mediated by muscarinic M₂-like receptors. *Eur.J.Pharmacol.* **250** 267. PMID: 8112384.

Gosens et al (2003) Muscarinic M₃-receptors mediate cholinergic synergism of mitogenesis in airway smooth muscle. *Am.J.Respir.Cell Mol.Biol.* **28** 257. PMID: 12540494.

Gosens et al (2004) Muscarinic M₃ receptor-dependent regulation of airway smooth muscle contractile phenotype. *Br.J.Pharmacol.* **141** 943. PMID: 14993104.

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