



Certificate of Analysis

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Product Name: PD 102807 Catalog No.: 1671 Batch No.: 6

CAS Number: 23062-91-1

IUPAC Name: 3,6a,11,14-Tetrahydro-9-methoxy-2-methyl-(12*H*)-isoquino[1,2-*b*]pyrrolo[3,2-f][1,3]benzoxazine-1-carboxylic acid,

ethyl ester

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{23}H_{24}N_2O_4$.Batch Molecular Weight:392.45Physical Appearance:Beige solid

Solubility: DMSO to 100 mM

Storage: Store at RT

Batch Molecular Structure:

2. ANALYTICAL DATA

HPLC: Shows 98.4% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 70.39 6.16 7.14 Found 70.17 6.14 7.24

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



Product Information

Print Date: Jan 20th 2021

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Description:

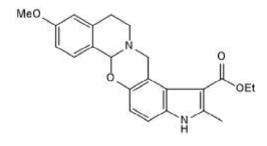
Selective M_4 muscarinic receptor antagonist. IC_{50} values are 91, 6559, 3441, 950 and 7412 nM for human M_4 , M_1 , M_2 , M_3 , and M_5 receptors respectively. Promotes self-renewal of erythroid progenitors.

Physical and Chemical Properties:

Batch Molecular Formula: $C_{23}H_{24}N_2O_4$. Batch Molecular Weight: 392.45 Physical Appearance: Beige solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

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:

Trivedi *et al* (2019) Muscarinic acetylcholine receptor regulates self-renewal of early erythroid progenitors. Sci.Transl.Med. *11*. PMID: 31554738.

Bohme et al (2002) Synthesis and pharmacology of benzoxazines as highly selective antagonists at M₄ muscarinic receptors. J.Med.Chem. **45** 3094. PMID: 12086495.

Kitaichi *et al* (1999) A novel muscarinic M₄ receptor antagonist provides further evidence of an autoreceptor role for the muscarinic M₂ receptor sub-type. Eur.J.Pharmacol. *383* 53. PMID: 10556681.