Certificate of Analysis

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Print Date: Jan 15th 2016

Product Name: Lazabemide hydrochloride

Catalog No.: 2460 Batch No.: 1

CAS Number: IUPAC Name:

Storage:

TOCRIS

a biotechne brand

103878-83-7 *N*-(2-Aminoethyl)-5-chloro-2-pyridinecarboxamide hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility:

Batch Molecular Structure:

C₈H₁₀CIN₃O.HCI 236.1 White crystalline solid water to 100 mM DMSO to 100 mM Desiccate at RT

NH, N

2. ANALYTICAL DATA

TLC: HPLC: ¹H NMR: Mass Spectrum: Microanalysis: $R_{f} = 0.48 \text{ (Dichloromethane:Methanol:Acetic acid [8:2:0.1])}$ Shows 98.8% purity
Consistent with structure
Consistent with structure
Carbon Hydrogen Nitrogen Chlorine
Theoretical 40.7 4.7 17.8 30.03
Found 40.48 4.66 17.66 29.89

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

bio-techne.com	North America	China	Europe Middle East Africa	Rest of World
info@bio-techne.com techsupport@bio-techne.com	Tel: (800) 343 7475	info.cn@bio-techne.com Tel: +86 (21) 52380373	Tel: +44 (0)1235 529449	www.tocris.com/distributors Tel:+1 612 379 2956

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Product Name: Lazabemide hydrochloride

CAS Number: 103878-83-7

IUPAC Name: N-(2-Aminoethyl)-5-chloro-2-pyridinecarboxamide hydrochloride

Description:

Selective, reversible monoamine oxidase B (MAO-B) inhibitor (IC₅₀ values are 0.03 and > 100 μ M for MAO-B and MAO-A respectively). Inhibits monoamine uptake at high concentrations (IC₅₀ values are 86, 123 and > 500 μ M for noradrenalin, serotonin and dopamine uptake respectively).

Physical and Chemical Properties:

Batch Molecular Formula: C₈H₁₀ClN₃O.HCl Batch Molecular Weight: 236.1 Physical Appearance: White crystalline solid

Minimum Purity: >98%

Batch Molecular Structure:

.NH_b

Storage: Desiccate at RT

Solubility & Usage Info:

water to 100 mM DMSO to 100 mM CAUTION - This product is hygroscopic and we recommend that it is desiccated upon arrival.

Catalog No.: 2460

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:

Saura *et al* (1992) Quantitative enzyme radioautography with ³H-Ro 41-1049 and ³H-Ro 19-6327 *in vitro*: localization and abundance of MAO-A and MAO-B in rat CNS, peripheral organs, and human brain. J.Neurosci. **12** 1977. PMID: 1578281.

Bondiolotti *et al* (1995) *In vitro* effects on monoamine uptake and release by the reversible monoamine oxidase-B inhibitors lazabemide and *N*-(2-aminoethyl)-p-chlorobenzamide: a comparison with L-deprenyl. Biochem.Pharmacol. *50* 97. PMID: 7605351.

Guimaraes and Soares-da-Silva (1998) The activity of MAO A and B in rat renal cells and tubules. Life Sci. 62 727. PMID: 9489509.

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