

# **Certificate of Analysis**

Print Date: Sep 16th 2019

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Product Name: Carcinine ditrifluoroacetate Catalog No.: 2211 Batch No.: 1

CAS Number: 2109435-79-0

IUPAC Name: 3-Amino-*N*-[2-(1*H*-imidazol-4-yl)ethyl]propanamide ditrifluoroacetate

# 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>8</sub>H<sub>14</sub>N<sub>4</sub>O.2CF<sub>3</sub>CO<sub>2</sub>H.H<sub>2</sub>O

**Batch Molecular Weight:** 428.29 **Physical Appearance:** White solid

**Solubility:** water to 100 mM

DMSO to 100 mM

Storage: Desiccate at RT

**Batch Molecular Structure:** 

## 2. ANALYTICAL DATA

**HPLC:** Shows 99.4% purity

<sup>1</sup>H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 33.65 4.24 13.08 Found 33.93 4.02 13.18



# **Product Information**

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IUPAC Name: 3-Amino-*N*-[2-(1*H*-imidazol-4-yl)ethyl]propanamide ditrifluoroacetate

#### **Description:**

Highly selective  $H_3$  receptor antagonist (K<sub>i</sub> values are 0.30, 365 and 3621  $\mu M$  for  $H_3,\,H_2$  and  $H_1$  receptors respectively). Acts as a natural antioxidant with hydroxyl radical scavenging and lipid peroxidase activities.

#### **Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>8</sub>H<sub>14</sub>N<sub>4</sub>O.2CF<sub>3</sub>CO<sub>2</sub>H.H<sub>2</sub>O

Batch Molecular Weight: 428.29 Physical Appearance: White solid

Minimum Purity: >98%

#### **Batch Molecular Structure:**

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.: 2211

## 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:

Chen et al (2004) Pharmacological effects of carcinine on histaminergic neurons in the brain. Br.J.Pharmacol. 143 573. PMID: 15466447.

**Babizhayev** *et al* (1994) L-Carnosine (β-alanyl-L-histidine) and carcinine (β-alanylhistamine) act as natural antioxidants with hydroxyl-radical-scavenging and lipid-peroxidase activities. Biochem.J. *304* 509. PMID: 7998987.

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