Product Name: Carcinine difluoroacetate
Catalog No.: 2211
Batch No.: 1
CAS Number: 2109435-79-0
IUPAC Name: 3-Amino-N-[2-(1H-imidazol-4-yl)ethyl]propanamide difluoroacetate

1. PHYSICAL AND CHEMICAL PROPERTIES

   Batch Molecular Formula: $C_8H_{13}N_4O.2CF_3CO_2H.H_2O$
   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
   $^1$H NMR: Consistent with structure
   Mass Spectrum: Consistent with structure
   Microanalysis:

<table>
<thead>
<tr>
<th>Element</th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
<td>33.65</td>
<td>33.93</td>
</tr>
<tr>
<td>H</td>
<td>4.24</td>
<td>4.02</td>
</tr>
<tr>
<td>N</td>
<td>13.08</td>
<td>13.18</td>
</tr>
</tbody>
</table>
**Product Name:** Carcinine ditrifluoroacetate  
**Catalog No.:** 2211  
**Batch No.:** 1

**CAS Number:** 2109435-79-0  
**IUPAC Name:** 3-Amino-N-[2-(1H-imidazol-4-yl)ethyl]propanamide ditrifluoroacetate

**Description:**  
Highly selective H\textsubscript{3} receptor antagonist (K\textsubscript{i} values are 0.30, 365 and 3621 μM for H\textsubscript{3}, H\textsubscript{2} and H\textsubscript{1} receptors respectively). Acts as a natural antioxidant with hydroxyl radical scavenging and lipid peroxidase activities.

**Physical and Chemical Properties:**  
- **Batch Molecular Formula:** C\textsubscript{10}H\textsubscript{14}N\textsubscript{3}O\textsubscript{2}.2CF\textsubscript{3}CO\textsubscript{2}H,H\textsubscript{2}O  
- **Batch Molecular Weight:** 428.29  
- **Physical Appearance:** White solid  
- **Minimum Purity:** >98%

**Storage:** Desiccate at RT

**Solubility & Usage Info:**  
- water to 100 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).

**References:**  