Product Name: Riluzole hydrochloride
Catalog No.: 0768
Batch No.: 18
CAS Number: 850608-87-6
IUPAC Name: 2-Amino-6-trifluoromethoxybenzothiazole hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₈H₅F₃N₂OS.HCl
Batch Molecular Weight: 270.66
Physical Appearance: White solid
Solubility: DMSO to 100 mM
water to 10 mM with gentle warming
Storage: Store at RT
Batch Molecular Structure:

2. ANALYTICAL DATA

HPLC: Shows 98.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>35.5</td>
<td>35.69</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>2.23</td>
<td>2.19</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>10.35</td>
<td>10.32</td>
</tr>
</tbody>
</table>
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Description:
Inhibits glutamate release from presynaptic terminals and increases Na+-dependent glutamate uptake in rat cortical synaptosomes. Blocks voltage-dependent Na+ channels and inhibits GABA uptake by striatal synaptosomes. Also activates TRPC5 channels. Psychotropic agent with anticonvulsant, hypnotic, anxiolytic, anti-ischemic, anesthetic and neuroprotective properties.

Physical and Chemical Properties:
Batch Molecular Formula: C₇H₆F₃N₂O.S.HCl
Batch Molecular Weight: 270.66
Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:

Storage: Store at RT

Solubility & Usage Info:
DMSO to 100 mM
water to 10 mM with gentle warming

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: