

Certificate of Analysis

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Product Name: Riluzole hydrochloride

Catalog No.: 0768

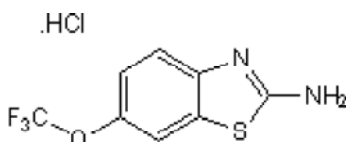
Batch No.: 18

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:

	Carbon	Hydrogen	Nitrogen
Theoretical	35.5	2.23	10.35
Found	35.69	2.19	10.32

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

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CAS Number: 850608-87-6

IUPAC Name: 2-Amino-6-trifluoromethoxybenzothiazole hydrochloride

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:

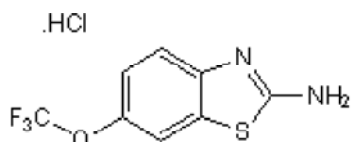
Batch Molecular Formula: C₈H₅F₃N₂OS.HCl

Batch Molecular Weight: 270.66

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Richter et al (2014) Riluzole activates TRPC5 channels independently of PLC activity. *Br.J.Pharmacol.* **171** 158. PMID: 24117252.

Fumagalli et al (2008) Riluzole enhances the activity of glutamate transporters GLAST, GLT1 and EAAC1. *Eur.J.Pharmacol.* **578** 171. PMID: 18036519.

Song et al (1997) Differential action of Riluzole on tetrodotoxin-sensitive and tetrodotoxin-resistant sodium channels. *J.Pharmacol.Exp.Ther.* **282** 707. PMID: 9262334.

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.

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bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956