TOCRIS a biotechne brand

Print Date: Apr 16th 2019

Certificate of Analysis

www.tocris.com

Batch No.: 17

Catalog No.: 0768

Product Name: Riluzole hydrochloride

CAS Number: 850608-87-6 IUPAC Name: 2-Amino-6-trifluoromethoxybenzothiazole hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: $C_8H_5F_3N_2OS.HCl$ 270.66 White solid DMSO to 100 mM water to 10 mM with gentle warming Store at RT

Storage: Batch Molecular Structure:

.HCI NH₂ F₂C

2. ANALYTICAL DATA

TLC: HPLC: ¹H NMR: Mass Spectrum: Microanalysis: R_f = 0.65 (Chloroform:Methanol [9:1] + NH4OH 0.1%) Shows >99.7% purity Consistent with structure Consistent with structure Carbon Hydrogen Nitrogen Theoretical 35.5 2.23 10.35 Found 35.51 2.59 10.33

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

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Product Information

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Product Name: Riluzole hydrochloride

CAS Number:850608-87-6IUPAC Name:2-Amino-6-trifluoromethoxybenzothiazole hydrochloride

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,

anti-ischemic.

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 rap	bic	stirring,	sonication	or	gentle	warming	(in	а	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:

Description:

hypnotic.

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.

Taylor and Meldrum (1995) Na⁺ channels as targets for neuroprotective drugs. TiPS 16 309. PMID: 7482996.

anesthetic

and

Umeniya and Berger (1995) Inhibition by Riluzole of glycinergic postsynaptic currents in rat hypoglossal motoneurones. Br.J.Pharmacol. *116* 3227. PMID: 8719800.

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.HCI

anxiolvtic.

Physical and Chemical Properties: Batch Molecular Formula: C₈H₅F₃N₂OS.HCl

Batch Molecular Weight: 270.66

Physical Appearance: White solid

neuroprotective properties.

Minimum Purity: >98%

Batch Molecular Structure:

Catalog No.: 0768

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