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DATASHEET

Riluzole

Product overview

Name Riluzole Cat No HB6093 PK 26124 Alternative names Biological action Inhibitor Purity >98%

Customer comments Great quality by half the price of other suppliers. We have been using riluzole from regular suppliers

> for many years. Now, we have tested Riluzole from Hello Bio and this has worked fantastic. Compound activity is comparable to the previous one, but the price is almost half of it. Also, the user experience working with them is easy and fast. I definitely recommend this compound. Verified

customer, University of Vigo

Description Na+ channel blocker / glutamate inhibitor. TREK-1 K2P channel activator.

Biological Data

Biological description Na+ channel blocker. Increases glutamate uptake, inhibits glutamate release and inhibits GABA

uptake. Non-competitive NMDA receptor and Protein kinase C (PKC) inhibitor and a TREK-1 K2P channel activator. Shows neuroprotective, anxiolytic, anticonvulsant and anesthetic actions. Shows

actions against motorneuron disease.

Solubility & Handling

Solubility overview Storage instructions Storage of solutions Soluble in DMSO (100 mM), and in ethanol (100 mM)

Room temperature

Prepare and use solutions on the same day if possible. Store solutions at -20°C for up to one month if

storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.

Shipping Conditions Stable for ambient temperature shipping. Follow storage instructions on receipt.

Important

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not

for human or veterinary use.

Chemical Data

InChi

Chemical name 2-Amino-6-(trifluoromethoxy)benzothiazole

Molecular Weight 234.2 **Chemical structure**

Molecular Formula $C_8H_5F_3N_2OS$ **CAS Number** 1744-22-5 **PubChem identifier**

SMILES C1=CC2=C(C=C1OC(F)(F)F)SC(=N2)N

InChl=1S/C8H5F3N2OS/c9-8(10,11)14-4-1-2-5-6(3-4)15-7(12)13-5/h1-3H,(H2,12,13)

InChiKey FTALBRSUTCGOEG-UHFFFAOYSA-N

MDL number MFCD00210213 White solid **Appearance**

References

Riluzole produces distinct anxiolytic-like effects in rats without the adverse effects associated with benzodiazepines.

Sugiyama A et al (2012) Neuropharmacology 62(8) **PubMedID** 22377384

Riluzole blocks persistent Na+ and Ca2+ currents and modulates release of glutamate via presynaptic NMDA receptors on neonatal rat hypoglossal motoneurons in vitro.

Lamanauskas N *et al* (2008) Eur J Neurosci 27(10) **PubMedID** 18445055

Riluzole enhances the activity of glutamate transporters GLAST, GLT1 and EAAC1.

Fumagalli E *et al* (2008) Eur J Pharmacol 578(2-3) **PubMedID** 18036519

Riluzole improves outcome following ischemia-reperfusion injury to the spinal cord by preventing delayed paraplegia.

Wu Y et al (2014) Neuroscience 265

PubMedID 24508749