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DATASHEET

Riluzole

Product overview

Name	Riluzole
Cat No	HB6093
Alternative names	PK 26124
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.

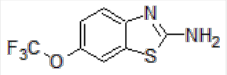
Biological Data

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

Storage instructions	Room temperature
Solubility overview	Soluble in DMSO (100 mM), and in ethanol (100 mM)
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

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	5070
SMILES	C1=CC2=C(C=C1OC(F)(F)F)SC(=N2)N
InChi	InChI=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
Appearance	White solid

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