Product overview

Name: Riluzole hydrochloride
Cat No: HB0548
Short description: Na+ channel blocker / glutamate inhibitor
Biological description: Na+ channel blocker. Increases glutamate uptake and inhibits glutamate release. Also inhibits GABA uptake. Non-competitive NMDA receptor and Protein kinase C (PKC) inhibitor. Shows neuroprotective, anxiolytic, anticonvulsant and anesthetic actions. Shows actions against motorneuron disease.
Alternative names: PK 26124
Biological action: Blocker
Purity: >98%

Images

Properties

Chemical name: 2-Amino-6-trifluoromethoxybenzothiazole hydrochloride
Molecular Weight: 270.66

[Chemical structure image]

Molecular Formula: C9H5F3N2OS.HCl
CAS Number: 850608-87-6
PubChem identifier: 6419992
SMILES: C1=CC2=C(C=C1OC(F)(F)F)SC(=N2)N.Cl
Source: Synthetic
InChI: InChI=1S/C9H5F3N2OS.ClH/c9-8(10,11)14-4-1-2-5-6(3-4)15-7(12)13-5/h11-3H,(H2,12,13);1H
InChIKey: QEAOELUQRYJJS-UHFFFAOYSA-N
MDL number: MFCD00210213
Appearance: White solid
Storing and Using Your Product

**Storage instructions**  Room temperature

**Solubility overview**  Soluble in DMSO (100mM, gentle warming) and in water (10mM, gentle warming)

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

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**References for Riluzole hydrochloride**

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


PubMedID: 24508749

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


PubMedID: 18036519

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


PubMedID: 18445055

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


PubMedID: 22377384