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## DATASHEET

Riluzole hydrochloride

### Product overview

<b>Name</b>	Riluzole hydrochloride
<b>Cat No</b>	HB0548
<b>Description</b>	Na <sup>+</sup> channel blocker / glutamate inhibitor
<b>Alternative names</b>	PK 26124
<b>Biological action</b>	Blocker
<b>Purity</b>	>98%

### Images



### Biological Data

<b>Biological description</b>	Na <sup>+</sup> 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.
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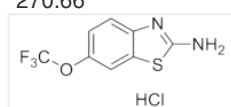
### Solubility & Handling

<b>Storage instructions</b>	Room temperature
<b>Solubility overview</b>	Soluble in DMSO (100mM, gentle warming) and in water (10mM, gentle warming)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

### Chemical Data

<b>Chemical name</b>	2-Amino-6-trifluoromethoxybenzothiazole hydrochloride
<b>Molecular Weight</b>	270.66

**Chemical structure**



<b>Molecular Formula</b>	C <sub>8</sub> H <sub>5</sub> F <sub>3</sub> N <sub>2</sub> OS.HCl
<b>CAS Number</b>	850608-87-6
<b>PubChem identifier</b>	6419992
<b>SMILES</b>	C1=CC2=C(C=C1OC(F)(F)F)SC(=N2)N.Cl
<b>Source</b>	Synthetic
<b>InChi</b>	InChI=1S/C8H5F3N2OS.ClH/c9-8(10,11)14-4-1-2-5-6(3-4)15-7(12)13-5;/h1-3H,(H2,12,13);1H
<b>InChiKey</b>	QEAOELIJQRYJJS-UHFFFAOYSA-N

**MDL number**  
**Appearance**

MFCD00210213  
White solid

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## References

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

Wu Y *et al* (2014) *Neuroscience* 265

**PubMedID** [24508749](#)

**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 blocks persistent Na<sup>+</sup> and Ca<sup>2+</sup> 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 produces distinct anxiolytic-like effects in rats without the adverse effects associated with benzodiazepines.**

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

**PubMedID** [22377384](#)

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