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DATASHEET

Riluzole hydrochloride

Product overview

Name	Riluzole hydrochloride
Cat No	HB0548
Alternative names	PK 26124
Biological action	Blocker
Purity	>98%
Description	Na^+ channel blocker / glutamate inhibitor. TREK-1 K2P channel activator. Water soluble.

Images

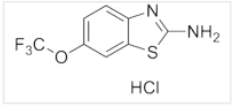
Biological Data

Biological description	Na^+ channel blocker. Increases glutamate uptake and inhibits glutamate release and also inhibits GABA uptake. Non-competitive NMDA receptor and Protein kinase C (PKC) inhibitor. Also 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 (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.

Chemical Data

Chemical name	2-Amino-6-trifluoromethoxybenzothiazole hydrochloride
Molecular Weight	270.66
Chemical structure	
Molecular Formula	$C_8H_5F_3N_2OS.HCl$
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/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
InChiKey	QEAOELIJQRYJJS-UHFFFAOYSA-N
MDL number	MFCD00210213
Appearance	White solid

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

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