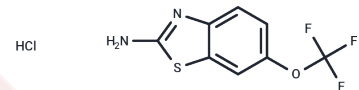


## Riluzole hydrochloride

## Chemical Properties

CAS No. :	850608-87-6
Formula:	C <sub>8</sub> H <sub>6</sub> ClF <sub>3</sub> N <sub>2</sub> OS
Molecular Weight:	270.66
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Riluzole hydrochloride (PK 26124 hydrochloride) is an anticonvulsant compound belonging to the family of sodium channel blockers that inhibits GABA uptake. Riluzole hydrochloride is a sodium-glutamate antagonist with anticancer and neuroprotective activity and can be used to study amyotrophic lateral sclerosis and neurological disorders.
Targets(IC50)	GABA Receptor, Sodium Channel
In vitro	Riluzole hydrochloride (20-100 μM) significantly prolonged the decay of IPSCs, resulting in almost no change in the total charge transfer[1].
In vivo	Riluzole hydrochloride (8 mg/kg; i.p.) can inhibit auditory and aversive emotional responses in adult rats with arthritis, but does not affect spinal withdrawal thresholds

## Solubility Information

Solubility	DMSO: 80 mg/mL (295.57 mM), Sonication is recommended. H <sub>2</sub> O: 2 mg/mL (7.39 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (12.19 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	3.6947 mL	18.4734 mL	36.9467 mL
5 mM	0.7389 mL	3.6947 mL	7.3893 mL
10 mM	0.3695 mL	1.8473 mL	3.6947 mL
50 mM	0.0739 mL	0.3695 mL	0.7389 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

He Y, et al. Neuroprotective agent riluzole potentiates postsynaptic GABA(A) receptor function. *Neuropharmacology*. 2002 Feb;42(2):199-209.

Thompson JM, et al. Small-conductance calcium-activated potassium (SK) channels in the amygdala mediate pain-inhibiting effects of clinically available riluzole in a rat model of arthritis pain. *Mol Pain*. 2015 Aug 28;11:51.

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