**Riluzole**

**Product ID** R3347  
**CAS No.** 1744-22-5  
**Chemical Name** 6-(trifluoromethoxy)-1,3-benzothiazol-2-amine  
**Synonym** Rilutek

### Formula

![Chemical Structure]

**Formula** C₈H₅F₃N₂OS  
**Formula Wt.** 234.19  
**Melting Point** 119°C  
**Purity** ≥98%  
**Store Temp** Ambient  
**Ship Temp** Ambient

**Description** Riluzole is clinically used to treat symptoms of amyotrophic lateral sclerosis (ALS). Riluzole inhibits Na⁺, K⁺, and Ca²⁺ currents and may display anticonvulsant activity, inhibiting rhythmic motor disorders. Riluzole also exhibits antinociceptive, anxiolytic, and anti-parasitic activities. Riluzole reverses cutaneous hypersensitivity in animal models of thermal pain, increasing response latency. This compound also improves performance of animals in the elevated plus maze, light/dark avoidance test, and open field test. Additionally, riluzole activates transient receptor potential canonical 5 (TRPC5) channels. Riluzole inhibits pteridine reductase 1 (PTR1) in parasites, increasing oxidative stress and resulting in death of *Leishmania* parasites. In vitro, riluzole increases glucose transport and upregulates translocation of glucose transporters to the plasma membrane. Riluzole may be a non-competitive inhibitor of kainate receptors and NMDA receptors.

### References


**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.