

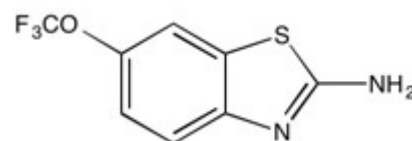
## Riluzole, Sodium channel blocker; Neuroprotective

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Catalog	Unit
TBI2815-20MG	20mg
TBI2815-100MG	100mg

### Product Details

**Formal Name:** 2-Amino-6-(trifluoromethoxy)benzothiazole  
**Molecular Formula:** C<sub>8</sub>H<sub>5</sub>F<sub>3</sub>N<sub>2</sub>OS  
**Formula Weight:** 234.20  
**CAS Number:** 1744-22-5  
**Purity:** >98%  
**Formulation:** powder  
**Solubility:** Soluble in DMSO (up to 25 mg/ml) or in Ethanol (up to 25 mg/ml)  
**Storage:** RT  
**Stability:** ≥ 1 year.



### Applications

Sodium channel blocker; Neuroprotective

### Functions

Riluzole is a clinically useful drug for the treatment of amyotrophic lateral sclerosis (ALS). Riluzole inhibits glutamate release via inactivation of voltage-dependent ion channels, effects expression and signal transduction of glutamate receptors, and facilitates glutamate uptake. It has also been investigated as a treatment for depression and anxiety. Riluzole induced apoptosis in mGluR1-expressing melanoma cells, inhibited cell proliferation in a U87mg glioblastoma model via blockage of glutamate release, and inhibited the growth of brain tumor stem-like cells via downregulation of GLUT3.

### Application Procedures

First dissolved in DMSO (up to 25 mg/ml) or in Ethanol (up to 25 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20°C for up to 2 months.

**For research use only.**