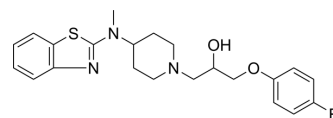


Sabeluzole

Cat. No.:	HY-105022
CAS No.:	104383-17-7
Molecular Formula:	C ₂₂ H ₂₆ FN ₃ O ₂ S
Molecular Weight:	415.52
Target:	Tau Protein
Pathway:	Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Sabeluzole (R 58735), a benzothiazol derivative, has antiischemic, antiepileptic, and cognitive-enhancing properties. Sabeluzole protects rat hippocampal neurons against NMDA- and glutamate-induced neurotoxicity via preventing tau expression. Sabeluzole enhances memory in rats, and prevents the amnesic effect of Chlordiazepoxide. Sabeluzole can be used for research of Alzheimer's disease ^{[1][2]} .
In Vitro	Sabeluzole (50 nM, 100 nM; 20 min before cell injury) exhibits protection in glutamate (50 μM)-mediated excitotoxicity in primary culture of cerebellar granule cell ^[1] . Sabeluzole (50 nM; 7 d) inhibits tau protein level increase induced by glutamate ^[1] . Sabeluzole (50 nM; 4 d) shows neuroprotective effects in human neuroblastoma cell line SH-SY5Y ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Sabeluzole (5 mg/kg, 25 mg/kg; sc; twice dose with 72 h interval) shows positive and memory enhancing properties in habituation amnesia male rats induced with 20 mg/kg Chlordiazepoxide ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
Animal Model:	Adult albino male rats (270-330 g) induced by Chlordiazepoxide ^[2]
Dosage:	5 mg/kg, 25 mg/kg
Administration:	SC; 0.5 ml/kg; twice dose with 72 h interval; 1 h before 20 mg/kg Chlordiazepoxide
Result:	Showed the positive effects on several learning and memory tasks in rats. Did not influence locomotor and rearing activity of animals during the acquisition session.

REFERENCES

- [1]. Hlinák Z, et al. Sabeluzole improves social recognition and antagonizes chlordiazepoxide's effect on habituation in the rat. *Psychopharmacology (Berl)*. 1991;104(4):505-9.
- [2]. Uberti D, et al. Priming of cultured neurons with sabeluzole results in long-lasting inhibition of neurotoxin-induced tau expression and cell death. *Synapse*. 1997 Jun;26(2):95-103.

Caution: Product has not been fully validated for medical applications. For research use only.

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