

Gabapentin lactam, Neuroprotective agent

Catalog	Unit
TBI2535-50MG	50 mg
TBI2535-250MG	250 mg

Product Details

Formal Name: 4,4-Pentamethylene-2-pyrrolidone

Alternate Names: GBP-L

Molecular Formula: C₉H₁₅NO

Formula Weight: 153.22

CAS Number: 64744-50-9

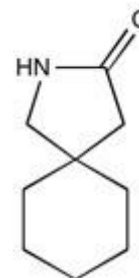
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to 40 mg/ml)

Storage: RT

Stability: ≥ 1 year.



Applications

Neuroprotective agent

Functions

Reduces protein aggregates and improves motor performance in a transgenic mouse model of Huntington's disease. Displays neurotrophic effects, enhancing the formation of dendritic filopodia and inducing a network of F-actin-containing neurites in cultured hippocampal neurons. Promotes the survival of cultured central nervous system neurons possibly by opening mitochondrial KATP channels. Displays neuroprotective effects in a rat model of acute retinal ischemia.

Application Procedures

First dissolved in DMSO (up to 40 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 2 months.

For research use only.