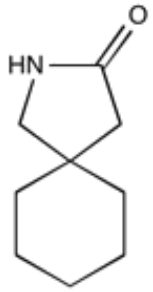
Catalog # 10-2535

Gabapentin lactam

CAS# 64744-50-9

4,4-Pentamethylene-2-pyrrolidone; GBP-L

Lot # X101430



Reduces protein aggregates and improves motor performance in a transgenic mouse model of Huntington's disease.[1] Displays neurotrophic effects, enhancing the formation of dendritic filopodia and inducing a network of F-actin-containing neurites in cultured hippocampal neurons.[2] Promotes the survival of cultured central nervous system neurons possibly by opening mitochondrial K_{ATP} channels.[3] Displays neuroprotective effects in a rat model of acute retinal ischemia.[4]

1) Zucker *et al*. (2004), *Gabapentin-lactam, but not gabapentin, reduces protein aggregates and improves motor performance in transgenic mouse model of huntington's disease*; Nauyn Schmiedebergs Arch. Pharmacol., **370** 131
2) Henle *et al*. (2006), *Gabapentin-lactam induces dendritic filopodia and motility in cultured hippocampal neurons*; J. Pharmacol. Exp. Ther., **319** 181
3) Pielen *et al*. (2004), *Retinal ganglion cell survival is enhanced by gabapentin-lactam in vitro: evidence for involvement of mitochondrial KATP channels*; Graefes Arch. Clin. Exp. Ophthalmol., **242** 240
4) Lagreze *et al*. (2001), *The neuroprotective properties of gabapentin-lactam*; Graefes Arch. Clin. Exp. Ophthalmol., **239** 845

PHYSICAL DATA

Molecular Weight:	153.22
Molecular Formula:	$C_9H_{15}NO$
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 40 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at room temperature for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 2 months.

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