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Nogo-66 1-40 (NEP 1-40) Peptide

Catalog Number:	Y-0198P
AA Seq:	Acetyl-RIYKGVIQAIQKSDEGHPFRAYLESEVAISEELVQKYSNS-Amide, MW: 4622.35
Predicted MW:	4.622
Activity:	Yes
Purification:	HPLC
Storage:	Shipped at 4°C. Stored at -20°C for one year. Avoid repeated freeze/thaw cycles.
Background:	Myelin-derived axon outgrowth inhibitors, such as Nogo, may account for the lack of axonal
	regeneration in the central nervous system (CNS) after trauma in adult mammals. Nogo-66
	can inhibit axonal outgrowth through an axonal Nogo-66 receptor (NgR). Competitive
	antagonists of NgR derived from amino-terminal peptide fragments of Nogo-66. The
	Nogo-66(1 40) antagonist peptide (NEP1 40) blocks Nogo-66 or CNS myelin inhibition of
	axonal outgrowth in vitro, demonstrating that NgR mediates a significant portion of axonal
	outgrowth inhibition by myelin. Intrathecal administration of NEP1 40 to rats with mid-
	thoracic spinal cord hemisection results in significant axon growth of the corticospinal tract,
	and improves functional recovery. Thus, Nogo-66 and NgR have central roles in limiting
	axonal regeneration after CNS injury, and NEP1-40 provides a potential therapeutic agent.
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