Data Sheet (Cat.No.TP1989)

TargetMol

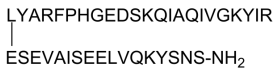
NEP(1-40)

Chemical Properties

CAS No. : 475221-20-6

Formula: C206H324N56O65

Molecular Weight: 4625.16



Storage: Keep away from moisture
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Peptide fragment corresponding to residues 1 - 40 of Nogo-66, the domain of the myelin protein Nogo that inhibits axonal outgrowth. Acts as a competitive antagonist at the Nogo-66 receptor (NgR); blocks Nogo-66- and CNS myelin-induced inhibition of axonal growth, but does not reduce myelin-associated glycoprotein (MAG) inhibition of neurite outgrowth in vitro. Promotes regeneration of hemisected spinal axons and locomotor recovery following spinal injury in vivo.

Solubility Information

Solubility	H2O: 1 mg/mL (0.22 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.2162 mL	1.081 mL	2.1621 mL
5 mM	0.0432 mL	0.2162 mL	0.4324 mL
10 mM	0.0216 mL	0.1081 mL	0.2162 mL
50 mM	0.0043 mL	0.0216 mL	0.0432 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

GrandPre et al (2002) Nogo-66 receptor antagonist peptide promotes axonal regeneration. Nature 417 547 PMID:
Liu et al (2002) Myelin-associated glycoprotein as a functional ligand for the Nogo-66 receptor. Science 297 1190 PMID:
Li and Strittmatter (2003) Delayed systemic Nogo-66 receptor antagonist promotes recovery from spinal cord injury. J.Neurosci. 23 4219 PMID: