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#### Print Date: Oct 25th 2022

## **Certificate of Analysis**

### www.tocris.com

 Product Name:
 Nogo-66 (1-40)

 CAS Number:
 475221-20-6

Catalog No.: 1984 B

Batch No.: 8

#### 1. PHYSICAL AND CHEMICAL PROPERTIES **Batch Molecular Formula:** $C_{206}H_{324}N_{56}O_{65}$ **Batch Molecular Weight:** 4625.16 White lyophilised solid **Physical Appearance:** TFA **Counter Ion:** Solubility: Soluble to 1 mg/ml in water Storage: Store at -20°C **Peptide Sequence:** Ac-Arg-Ile-Tyr-Lys-Gly-Val-Ile-Gln-Ala-Ile-GIn-Lys-Ser-Asp-Glu-Gly-His-Pro-Phe-Arg-Ala-Tyr-Leu-Glu-Ser-Glu-Val-Ala-IIe-Ser-Glu-Glu-Leu-Val-Gln-Lys-Tyr-Ser-Asn-Ser-NH<sub>2</sub> 2. ANALYTICAL DATA HPLC: Shows 96.2% purity Mass Spectrum: Consistent with structure 3. AMINO ACID ANALYSIS DATA Amino Acid Theoretical Actual Amino Acid Theoretical Actual Ala 3.00 2.83 3.00 3.01 Lys 2.00 1.80 Arg Met 2.00 2.06 1.00 1.03 Asx Phe Pro 1.00 1.02 Cys Glx 8.00 8.13 Ser 5.00 4.95 Gly 2.00 1.91 Thr His 1.00 0.96 Trp 4.00 lle 3.54 3.00 3.01 Tyr Leu 2.00 2.08 Val 3.00 2.76

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#### Product Name: Nogo-66 (1-40)

Nogo-66 (1-40) is a 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

Ac-Arg-Ile-Tyr-Lys-Gly-Val-Ile-Gln-Ala-Ile-

GIn-Lys-Ser-Asp-Glu-Gly-His-Pro-Phe-Arg-

Ala-Tvr-Leu-Glu-Ser-Glu-Val-Ala-IIe-Ser-

Glu-Glu-Leu-Val-Gln-Lys-Tyr-Ser-Asn-Ser-NH2

locomotor recovery following spinal injury in vivo.

**Physical and Chemical Properties:** 

Batch Molecular Weight: 4625.16

**Peptide Sequence:** 

Batch Molecular Formula: C206H324N56O65

Physical Appearance: White lyophilised solid

CAS Number: 475221-20-6

**Description:** 

#### Storage: Store at -20°C

#### Solubility & Usage Info:

Soluble to 1 mg/ml in water

This product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

Catalog No.: 1984

#### Counter Ion: TFA

#### **Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Peptides in solution are much less stable than in lyophilized form. This is especially true for peptides whose sequences contain amino acids such Cys, Met,Trp, Asn, Gln, and N-terminal Glu.

Therefore we recommend storing peptides in solution for as short a time as possible. Avoid repeated freeze thaw cycles by dividing the peptide solution into aliquots and storing the aliquots at -20°C. Any portion of an aliquot unused after thawing should be discarded.

Peptides stored in solution can occasionally be susceptible to bacterial degradation. We recommend using sterile solutions or passing the peptide solution through a 0.2  $\mu$ m filter to remove potential bacterial contamination whenever possible.

#### **References:**

Li and Strittmatter (2003) Delayed systemic Nogo-66 receptor antagonist promotes recovery from spinal cord injury. J.Neurosci. 23 4219. PMID: 12764110.

GrandPre et al (2002) Nogo-66 receptor antagonist peptide promotes axonal regeneration. Nature 417 547. PMID: 12037567.

Liu et al (2002) Myelin-associated glycoprotein as a functional ligand for the Nogo-66 receptor. Science 297 1190. PMID: 12089450.

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