Nogo A Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	Nogo A (NOGOA), Blocking Peptide
Full Product Name	Nogo A Blocking Peptide
Product Gene Name	NOGOA blocking peptide
Product Synonym Gene Name	RTN4
Product Synonym Names	1110020G17Rik; AA407876; AA409940; AA960376; ASY; C130026I10Rik; Foocen; Glut4 vesicle 20 kDa protein; Human NogoA; Kiaa0886; KIAA4153; MGC116054; MGC139261; mKIAA0886; mKIAA4153; My043 protein; Nbla00271; Nbla10545; Neurite growth inhibitor 220; Neurite Growth Inhibitor 220, included; Neurite outgrowth inhibitor; Neuroendocrine-specific protein; Neuroendocrine-specific protein C homolog; NI-250; NI220/250; Nogo A; NOGO; Nogo B; Nogo C; Nogo protein; NOGOC; NSP; NSP-CL; rat N; Reticulon 4; Reticulon 5; Reticulon-4; Reticulon-5; RTN X; RTN-x; Rtn4; Rtn4 reticulon 4; RTN4-A; RTN4-B1; RTN4-B2; RTN4-C; RTN4_HUMAN; Vp20
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	Nogo A peptide (MBS9627610) is used for blocking the activity of Nogo A antibody (MBS9608898)
Molecular Weight	108,450 Da
OMIM	604475
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for NOGOA blocking peptide	Blocking/Control
Related Product Information for NOGOA blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of NOGOA blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for NOGOA purchase	MBS9627610 is a blocking peptide targeting NOGOA. Also known as Nogo A Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NOGOA. It may not necessarily be applicable to this product.

NCBI GI #	1013381327
NCBI GeneID	57142

NCBI Accession #	NP_001308788.1
UniProt Primary Accession #	Q9NQC3
UniProt Secondary Accession #	O94962; Q7L7Q5; Q7L7Q6; Q7L7Q8; Q8IUA4; Q96B16; Q9BXG5; Q9H212; Q9H3I3; Q9UQ42; Q9Y293
UniProt Related Accession #	Q9NQC3
GenBank Nucleotide #	NM_001321859.1
NCBI Official Full Name	reticulon-4 isoform E
NCBI Official Synonym Full Names	reticulon 4
NCBI Official Symbol	RTN4
NCBI Official Synonym Symbols	ASY; NSP; NOGO; NOGOC; RTN-X; NOGO-A; NSP-CL; Nogo-B; Nogo-C; RTN4-A; RTN4-C; RTN4-B1; RTN4-B2; NI220/250; Nbla00271; Nbla10545
UniProt Protein Name	Reticulon-4
UniProt Synonym Protein Names	Foocen; Neurite outgrowth inhibitor; Nogo protein; Neuroendocrine-specific protein; NSP; Neuroendocrine-specific protein C homolog; RTN-x; Reticulon-5
UniProt Gene Name	RTN4
UniProt Synonym Gene Names	KIAA0886; NOGO; Nogo protein; NSP
UniProt Entry Name	RTN4_HUMAN
NCBI Protein Information	reticulon-4
NCBI Summary for NOGOA	This gene belongs to the family of reticulon encoding genes. Reticulons are associated with the endoplasmic reticulum, and are involved in neuroendocrine secretion or in membrane trafficking in neuroendocrine cells. The product of this gene is a potent neurite outgrowth inhibitor which may also help block the regeneration of the central nervous system in higher vertebrates. Alternatively spliced transcript variants derived both from differential splicing and differential promoter usage and encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]
UniProt Comments for NOGOA	Nogo: Developmental neurite growth regulatory factor with a role as a negative regulator of axon-axon adhesion and growth, and as a facilitator of neurite branching. Regulates neurite fasciculation, branching and extension in the developing nervous system. Involved in down-regulation of growth, stabilization of wiring and restriction of plasticity in the adult CNS. Regulates the radial migration of cortical neurons via an RTN4R-LINGO1 containing receptor complex. Isoform 2 reduces the anti-apoptotic activity of Bcl-xl and Bcl-2. This is likely consecutive to their change in subcellular location, from the mitochondria to the endoplasmic reticulum, after binding and sequestration. Isoform 2 and isoform 3 inhibit BACE1 activity and amyloid precursor protein processing. 6 isoforms of the human protein are produced by alternative splicing. Protein type: Endoplasmic reticulum; Membrane protein, integral; Membrane protein, multi-pass; Motility/polarity/chemotaxis; Inhibitor; Cell development/differentiation Chromosomal Location of Human Ortholog: 2p16.3 Cellular Component: cell projection; cell soma; endoplasmic reticulum; plasma membrane; integral to endoplasmic reticulum membrane; nuclear envelope; intracellular Molecular Function: protein binding Biological Process: regulation of apoptosis; nerve growth factor receptor signaling pathway; apoptosis; cerebral cortex radial glia guided migration; axonal fasciculation; negative regulation of axonogenesis; negative regulation of cell growth; angiogenesis; negative regulation of axon extension; regulation of axonogenesis; regulation of cell migration
Research Articles on NOGOA	**1.** LILRA3 significantly reversed Nogo-66-mediated inhibition of neurite outgrowth and promoted synapse formation in primary cortical neurons through regulation of the ERK/MEK pathway.

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