

Active Recombinant Rat Reticulon 4, Fc Chimera

Cat. No. Rtn4-1924R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Reticulon 4 with the Fc region of human IgG via a linker peptide was expressed in a human myeloma cell line, <i>NSO</i> .
Species	Rat
Source	Mammalian Cells
Description	Reticulon-4, also known as Neurite outgrowth inhibitor or Nogo, is a protein that in humans is encoded by the RTN4 gene that has been identified as an inhibitor of neurite outgrowth specific to the central nervous system. 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.
Purity	> 95%, as determined by SDS-PAGE and visualized by silver stain.
Molecular Mass	The recombinant rat Nogo-A/Fc is a disulfide-linked homodimeric protein. Based on N-terminal amino acid sequencing, recombinant rat Nogo A starts at Thr 544. Each monomer has a calculated molecular mass of approximately 46.1 kDa. As a result of glycosylation, recombinant rat Nogo-A migrates as an approximately 75 - 85 kDa protein in SDS-PAGE under reducing conditions.
Activity	Measured by its ability to inhibit neurite outgrowth of cultured embryonic chick dorsal root ganglia neurons. Immobilized rrNogo/Fc on nitrocellulose coated microplate (at a 3

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	μL droplet containing 300 ng) insufficient to significantly inhibit neurite outgrowth.
Endotoxin	< 1.0 EU per 1 μg of the enzyme as determined by the LAL method.
Format	Lyophilized from a 0.2 μm filtered solution in PBS.
Storage	Samples are stable for up to six months at -70°C in a manual defrost freezer after the date of receipt. After receiving, this protein can be aliquoted and stored at above temperature for up to six months without a significant loss of activity. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

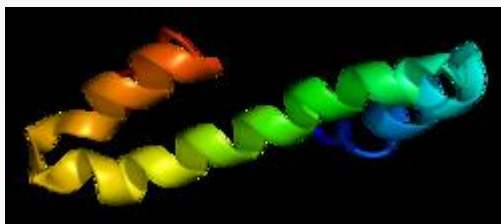
Gene Name	Rtn4 reticulon 4 [<i>Rattus norvegicus</i>]
Synonyms	Rtn4; reticulon 4; r; Vp20; rat N; NI-250; MGC116054; rat NogoA; Rtn4; NI-220/250; reticulon-4; GLUT4 vesicle 20kDa protein; neurite outgrowth inhibitor; glut4 vesicle 20 kDa protein
Gene ID	83765
mRNA Refseq	NM_031831
Protein Refseq	NP_114019
UniProt ID	Q9JK11
Chromosome Location	20q12-q13.1
Function	protein binding; protein binding; protein complex binding

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on 2g31.



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