

Active Recombinant Rat Rtn4 protein, IgG1-tagged

Cat. No. Rtn4-924R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Rtn4(Thr544 - Phe725) fused with Human IgG1(Pro100 - Lys330) at C-terminal was expressed in NS0.
Species	Rat
Source	Mammalian Cells
ProteinLength	544-725 a.a.
Predicted N Terminal	Thr544
Form	Lyophilized from a 0.2 µm filtered solution in PBS.
Bio-activity	Measured by its ability to inhibit neurite outgrowth of dissociated E13 chick embryonic dorsal root ganglia (DRG) neurons. Able to significantly inhibit neurite outgrowth when immobilized as a 3 µ droplet containing 300 ng on a nitrocellulose-coated microplate.
Molecular Mass	Predicted Molecular Mass: 46.1 (monomer) kDa;SDS-PAGE: 75-85 kDa, reducing conditions.
Endotoxin	<0.10 EU per 1 µg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain
Storage	Avoid repeated freeze-thaw cycles.12 months from date of receipt, -20 to -70

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centigrade as supplied.1 month, 2 to 8 centigrade under sterile conditions after reconstitution.3 months, -20 to -70 centigrade under sterile conditions after reconstitution.

Reconstitution Reconstitute at 100 µg/mL in sterile PBS.

GENE INFORMATION

Gene Name [Rtn4 reticulon 4 \[Rattus norvegicus \]](#)

Official Symbol [Rtn4](#)

Synonyms RTN4; reticulon 4; reticulon-4; foocen; NI-220/250; nogo protein; GLUT4 vesicle 20kDa protein; neurite outgrowth inhibitor; glut4 vesicle 20 kDa protein; r; Nogo; Vp20; rat N; NI-250; Nogo-A; rat NogoA; MGC116054;

Gene ID [83765](#)

mRNA Refseq [NM_031831](#)

Protein Refseq [NP_114019](#)

MIM

UniProt ID

Chromosome Location 14q22

Pathway Axonal growth inhibition (RHOA activation), organism-specific biosystem; Signal Transduction, organism-specific biosystem; Signalling by NGF, organism-specific biosystem; p75 NTR receptor-mediated signalling, organism-specific biosystem;

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p75NTR regulates axonogenesis, organism-specific biosystem;

Function

protein binding; protein complex binding;

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