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

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	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;

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	p75NTR regulates axonogenesis, organism-specific biosystem;
Function	protein binding; protein complex binding;

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA