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Recombinant Mouse Nogo Receptor/NgR Protein (His & Fc Tag)

Catalog No. PKSM040862

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Synonyms NgR;NgR1;NOGOR;Rtn4r

Species Mouse

Expression Host

Sequence

Met 1-Ser 447

Accession

NP_075358.1

Calculated Molecular Weight

Observed molecular weight

Tag

HEK293 Cells

Met 1-Ser 447

NP_075358.1

73.8 kDa

95-100 kDa

C-His-Fc

Bioactivity Immobilized recombinant Mouse RTN4R Fc Chimera at 2 μg/ml (100 μl/well) can

bind biotinylated human RTN4 (GST Tag) with a linear range of 0.16-2. 5 µg/ml.

Properties

Purity > 85 % as determined by reducing SDS-PAGE.

Endotoxin < 1.0 EU per µg of the protein as determined by the LAL method.

Storage Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to

-80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots

of reconstituted samples are stable at < -20°C for 3 months.

Shipping This product is provided as lyophilized powder which is shipped with ice packs.

Formulation Lyophilized from sterile PBS, pH 7.4

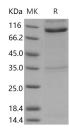
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

Data



> 85 % as determined by reducing SDS-PAGE.

Background

Reticulon 4 receptor (RTN4R), also known as Nogo-66 Receptor (NgR), is a glycosylphosphoinositol (GPI)-anchored

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protein that belongs to the Nogo recptor family including three members. Mouse RTN4R cDNA contains 10 LRP (Leucine-rich) repeats. RTN4R is expressed predominantly in neurons and their axons in the central nervous systems (CNS). As a receptor for myelin-derived proteins Nogo, myelin-associated glycoprotein (MAG), and myelin oligodendrocyte glycoprotein (OMG), RTN4R mediates axonal growth inhibition and may play a role in regulating axonal regeneration and plasticity in the adult CNS. It has been shown that RTN4R performs its inhibitory actions by interacting with the p75 neurotrophin receptor (p75NTR), a TNFRSF member also known for modulating the activities of the Trk family and for inducing apoptosis in neurons and oligodendrocytes. RTN4R may be proposed as a potential drug target for treatment of various neurological conditions such as spinal cord in jury, CNS lesions, peripheral nerve in jury, stroke and Alzheimer's disease (AD). Additionally, RTN4R may play a role in regulating the function of the gap junctions.

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