



Recombinant Protein Technical Manual

Recombinant Human NgR3/RTN4RL1 Protein (His Tag)

RPES0683

Product Data:

Product SKU: RPES0683

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: Q86UN2

Protein Information:

Molecular Mass: 45.5 kDa

AP Molecular Mass: 65 kDa

Tag: C-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

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

Storage: 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 a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, 5% Threhalose, pH 7.2.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Reticulon-4 Receptor-Like 1; Nogo Receptor-Like 2; Nogo-66 Receptor Homolog 2; Nogo-66 Receptor-Related Protein 3; NgR3; RTN4RL1; NGRH2; NGRL2

Immunogen Information:

Sequence: Cys25-Ala419

Background:

Nogo-66 Receptor-Related Protein 3 (NgR3) has primary structures with NgR2 (NgRH1, NgRL3) and biochemical properties that are homologous to Nogo-66 receptor (NgR), and constitute a novel neuronal receptor protein family. NgR is GPI-anchored and contains eight leucine-rich repeats (LRR), it is the neuronal receptor for the myelin-associated proteins Nogo-A, OMgp (oligodendrocyte myelin glycoprotein), and MAG (myelin-associated glycoprotein) and mediates the inhibition of CNS axonal regeneration both in vitro and in vivo. NgR2 and NgR3 have similar structure and distinct but overlapping expression versus NgR. NgR2 can be metalloproteinase-cleaved to release a soluble ectodomain. NgR2 has also been shown to bind MAG, but ligands for NgR3 have not yet been determined. Mature human NgR3 shares 88%, 88%, 48% and 44% amino acid identity with mature mouse NgR3, rat NgR3, human NgRH1 and NgR, respectively.