

## NgR3 Protein, Human, Recombinant (His)

### General Information

Synonyms:	NGRL2;Nogo Receptor-Like 2;Reticulon-4 Receptor-Like 1;NgR3;NGRH2;RTN4RL1;Nogo-66 Receptor-Related Protein 3;Nogo-66 Receptor Homolog 2
Protein Construction:	Cys25-Ala419
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q86UN2
Molecular Weight:	65 KDa (reducing condition)
AA Sequence:	Cys25-Ala419

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing 20 mM PB, 150 mM NaCl, pH 7.4.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein 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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481