

# Recombinant Human Reticulon 4 Interacting Protein 1, His-tagged

**Cat. No.** RTN4IP1-4829H    **Lot. No.** (See product label)

## SPECIFICATION

|                                 |                                                                                                                                                                                                                                                                                                            |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>         | Recombinant human RTN4IP1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.                                                                                                                                                              |
| <b>Species</b>                  | Human                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>                   | E.coli                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>              | RTN4IP1 is a novel mitochondrial protein that interacts with reticulon 4, which is a potent inhibitor of regeneration following spinal cord injury. The interaction of reticulon 4 with mitochondrial proteins may provide insight into the mechanisms for reticulon-induced inhibition of neurite growth. |
| <b>Form</b>                     | Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 1mM DTT.                                                                                                                                                                                                                                 |
| <b>Molecular Weight</b>         | 41.4 kDa (379aa), confirmed by MALDI-TOF.                                                                                                                                                                                                                                                                  |
| <b>Purity</b>                   | >95% by SDS-PAGE                                                                                                                                                                                                                                                                                           |
| <b>Concentration</b>            | 1 mg/ml (determined by Bradford assay)                                                                                                                                                                                                                                                                     |
| <b>Sequences of amino acids</b> | MGSSHHHHHH SSGLVPRGSH MGSTVMPAWV IDKYGKNEVL RFTQNMMMPI<br>IHYPNEVIVK VHAASVNPID VNMRSGYGAT ALNMKRDPLHVKIKGEEFPL<br>TLGRDVSQGV MECGLDVKYF KPGDEVWAAV PPWKQGTLSF FVVVSGNEVS<br>HKPKSLTHTQ AASLPYVALT AWSAINKVGGLNDKNCTGKR VLILGASGGV                                                                         |

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GTFAIQVMKA WDAHVTAVCS QDASELVRKL GADDVIDYKS GSVEEQLKSL  
 KPFD FILDNV GGSTETWAPDFLKKWSGATY VTLVTPFLN MDRLGIADGM  
 LQTGVTVGSK ALKHFWKGVH YRWAFFMASG PCLDDIAELV DAGKIRPVIE  
 QTFPF SKVPEAFLKVERGHA RGKTVINVV

**Storage**

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

**GENE INFORMATION**
**Gene Name**

RTN4IP1 reticulon 4 interacting protein 1 [ Homo sapiens ]

**Official Symbol**

RTN4IP1

**Synonyms**

RTN4IP1; reticulon 4 interacting protein; NIMP; MGC12934; reticulon-4-interacting protein 1, mitochondrial; OTTHUMP00000016926; NOGO-interacting mitochondrial protein; reticulon 4 interacting protein 1; NOGO-interacting mitochondrial protein

**Gene ID**

84816

**mRNA Refseq**

NM\_032730

**Protein Refseq**

NP\_116119

**MIM**

610502

**UniProt ID**

Q8WWV3

**Chromosome  
Location**

6q21

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**Function**

binding; oxidoreductase activity; zinc ion binding

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