

Recombinant human RTN4IP1 protein

Catalog Number: ATGP1360

PRODUCT INFORMATION

Expression system

E.coli

Domain

41-396aa

UniProt No.

Q8WWV3

NCBI Accession No.

NP_116119

Alternative Names

Reticulon-4-interacting protein 1, MGC12934, NIMP, Reticulon 4 interacting protein 1

PRODUCT SPECIFICATION

Molecular Weight

41.4 kDa (379aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 30% glycerol, 0.1M NaCl

Purity

> 95% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

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. Recombinant human RTN4IP1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

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Amino acid Sequence

MGSSHHHHHHH SSGLVPRGSH MGSTVMPAWV IDKYGKNEVL RFTQNMMMPI IHYPNEVIVK VHAASVNPID VNMRSYGAT
ALNMKRDP LH VKIKGEEFPL TLGRDVSGVV MECGLDVKYF KPGDEVWAAV PPWKQGTLS E FVVVSGNEVS HKPKSLTHTQ
AASLPYVALT AWSAINKVG G LNDKNCTGKR VLILGASGGV GTF AIQVMKA WDAHVTAVCS QDASELVRKL GADDVIDYKS
GSVEEQ LKSL KPFDFILDNV GGSTETWAPD FLKKWSGATY VTLVTPFLN MDRLGIADGM LQTGVTVGSK ALKHFVKGVH
YRWAFFMASG PCLDDIAELV DAGKIRPVIE QTFPF SKVPE AFLKVERGHA RGKTVINVV

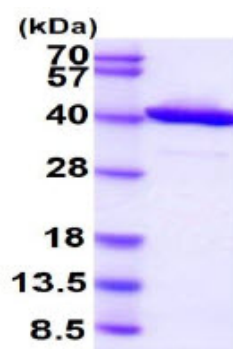
General References

Huber A.B. et al. (2000) Biol. Chem. 381: 407-419.

Hu W.H. et al. (2002) J. Neurochem. 81: 36-45.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.