

# Recombinant human Snurportin 1/SNUPN protein

Catalog Number: ATGP0640

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-360aa

### UniProt No.

O95149

### NCBI Accession No.

NP\_001036053

### Alternative Names

RNA U transporter 1, SNURPORTIN-1, RNUT1, SPN1

## PRODUCT SPECIFICATION

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### Molecular Weight

43.3 (380aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol 0.1M NaCl

### Purity

> 90% 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

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### Description

SNuPN, also known as KPNBL or RNuT1, is a nuclear import adaptor protein belonging to the Snurportin family. Localizing to the cytoplasm and nucleus, Snurportin-1 contains an N-terminal IBB domain and a trimethylguanosine (m3G) -cap binding domain. It specifically binds the terminal 2, 2, 7-m3G-cap at the 5' end of u snRNPs and functions to transport u snRNPs into the nucleus via an association with Importin beta. Recombinant human Snurportin-1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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## Amino acid Sequence

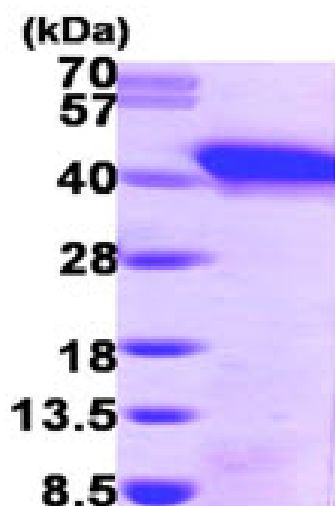
MGSSHHHHHH SSGLVPRGSH MEELSQUALAS SFSVSQDLNS TAAPHPRLSQ YKSKYSSLEQ SERRRRLLEL QKSKRLDYVN  
HARRLAEDDW TGMESSEENK KDDEEMDIDT VKKLPKHAN QLMLSEWLID VPSDLGQEWI VVCPVKGKRA LIVASRGSTS  
AYTKSGYCVN RFSSLLPGGN RRNSTAKDYT ILDCIYNEVN QTYVLDVMC WRGHPFYDCQ TDFRFYWMHS KLPEEEGLGE  
KTKLNPFFKV GLKNFPCTPE SLCDVLSMDF PFEVDGLLFY HKQTHYSPGS TPLVGWLRPY MVSDVLGVAV PAGPLTTKPD  
YAGHQLQQIM EHKKSQKEGM KEKLTHKASE NGHYLEHLS TPKLKGSSHS PDHPGCLMEN

## General References

Huber J., et al. (1998) EMBO J. 17(14):4114-26.

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)