

Recombinant human SNURF protein

Catalog Number: ATGP2528

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-71aa

UniProt No.

Q9Y675

NCBI Accession No.

NP_073715

Alternative Names

SNRPN upstream reading frame protein, Small nuclear ring finger protein

PRODUCT SPECIFICATION

Molecular Weight

10.8 kDa (94aa) confirmed by MALDI-TOF

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 40% glycerol, 1mM DTT

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

Description

SNuRF is a highly basic protein localized to the nucleus. The evolutionarily constrained open reading frame is found on a bicistronic transcript which has a downstream ORF encoding the small nuclear ribonucleoprotein polypeptide N. The upstream coding region utilizes the first three exons of the transcript, a region that has been identified as an imprinting center. Multiple transcription initiation sites have been identified and extensive alternative splicing occurs in the 5' untranslated region but the full-length nature of these transcripts has not been determined. An alternate exon has been identified that substitutes for exon 4 and leads to a truncated,

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monocistronic transcript. Alternative splicing or deletion caused by a translocation event in the 5' uTR or coding region of this gene leads to Angelman syndrome or Prader-Willi syndrome due to parental imprint switch failure. The function of this protein is not yet known. Recombinant human SNuRF protein, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography techniques.

Amino acid Sequence

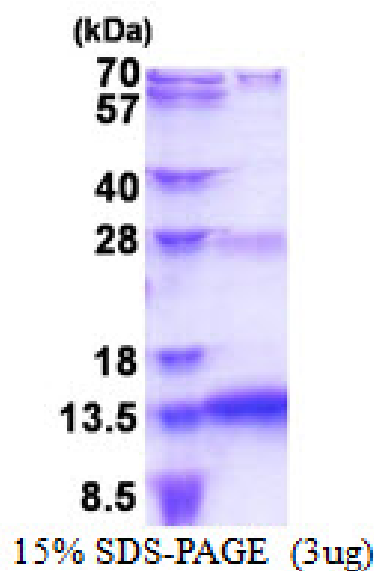
MGSSHHHHHHH SSSLVPRGSH MGSMERARDR LHLRRTTEQH VPEVEVQVQR RRTASLSNQE CQLYPRRSQQ
QQVPVDFQA ELRQAFLAET PRGG

General References

Runte M, Kroisel PM et al. (2004). *Hum Genet.* 114(6):553-61.

DATA

SDS-PAGE



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