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

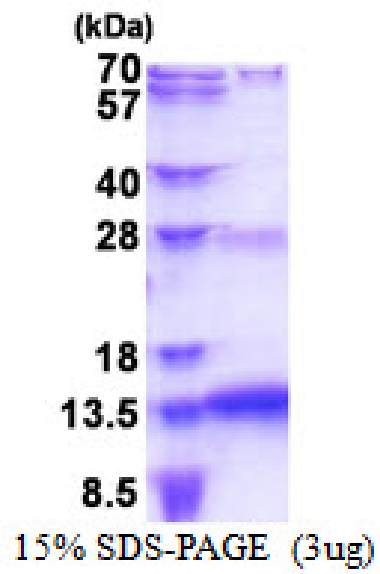
MGSSHHHHHH SSGLVPRGSH MGSMERARDR LHLRRTTEQH VPEVEVQVKR RRTASLSNQE CQLYPRRSQQ QQVPVVDFQA ELRQAFLAET PRGG

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.