

# Recombinant human SNRPA1 protein

Catalog Number: ATGP1361

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-255aa

### UniProt No.

P09661

### NCBI Accession No.

NP\_003081

### Alternative Names

u2 small nuclear ribonucleoprotein A, Lea1, small nuclear ribonucleoprotein polypeptide A

## PRODUCT SPECIFICATION

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### Molecular Weight

30.5 kDa (275aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 30% glycerol, 0.2M NaCl, 2mM DTT, 0.1mM PMSF

### Purity

> 80% 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

SNRPA1, also known as u2 small nuclear ribonucleoprotein A, is a component of the u2 snRNP that forms a complex with u2 snRNP B (u2B). Together, u2 snRNP A and u2 snRNP B form a complex that binds to the u2 snRNA hairpin IV. The configuration of this u2 snRNP A/u2 snRNP B dimer and the subtle variations of a few key residues regulate the snRNP-RNA-binding specificity. u2 snRNP A is a 255 amino acid protein, and two isoforms exist as a result of alternative splicing events. Recombinant human SNRPA1 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

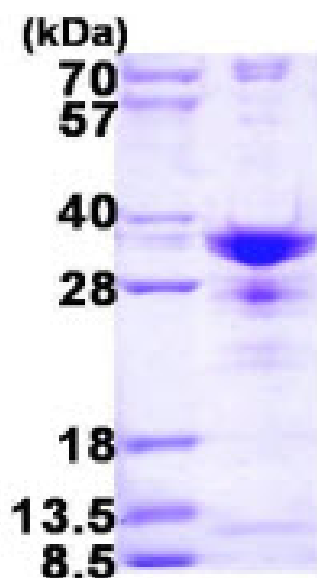
MGSSHHHHHH SSGLVPRGSH MVKLTAELIE QAAQYTN AVR DRELDLRGYK IPVIENLGAT LDQFDAIDFS DNEIRKLDGF  
PLLRRLKTL VNNNRICRIG EGLDQALPCL TELILTNN SL VELGDLPLA SLKSLTYLSI LRNPVTNKKH YRLYVIYKVP  
QVRVLD FQKV KLKERQEA EK MFKGKRGA QL AKDIARRSKT FNP GAGLPTD KKKGGPSPGD VEAIKNAIAN ASTLAEVERL  
KGLLQSGQIP GRERRSGPTD DGEEEMEEDT VTNGS

## General References

Crispino J.D. et al. (1994) Science 265: 1866-1869.  
Price S.R. et al. (1998) Nature. 394: 645-650.

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)