Recombinant human SNRPA1 protein

Catalog Number: ATGP1361

PRODUCT INFORMATION

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

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

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

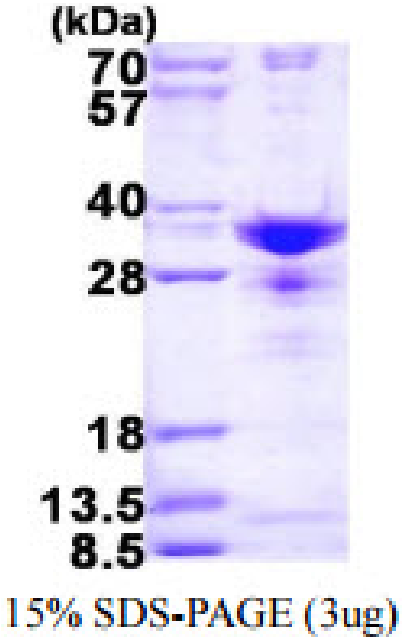
MGSSHHHHHH SSGLVPRGSH MVKLTAELIE QAAQYTNAVR DRELDLRGYK IPVIENLGAT LDQFDAIDFS DNEIRKLDGF PLLRRLKTLL VNNNRICRIG EGLDQALPCL TELILTNNSL VELGDLDPLA SLKSLTYLSI LRNPVTNKKH YRLYVIYKVP QVRVLDFQKV KLKERQEAEK MFKGKRGAQL AKDIARRSKT FNPGAGLPTD KKKGGPSPGD VEAIKNAIAN ASTLAEVERL KGLLQSGQIP GRERRSGPTD DGEEEMEEDT VTNGS

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



15% SDS-PAGE (3ug)

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