

# Recombinant Human Small Nuclear Ribonucleoprotein Polypeptide A', His-tagged

Cat. No. SNRPA1-4830H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant human SNRPA1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	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.
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 30% glycerol, 0.2M NaCl, 2mM DTT, 0.1mM PMSF.
<b>Molecular Weight</b>	30.5 kDa (275aa), confirmed by MALDI-TOF.
<b>Purity</b>	>80% by SDS-PAGE
<b>Concentration</b>	0.5 mg/ml (determined by Bradford assay)
<b>Sequences of amino</b>	MGSSHHHHHH SSGLVPRGSH MVKLTAEIE QAAQYTNVAVR DRELDLRGYK

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**acids**

IPVIENLGAT LDQFDAIDFS DNEIRKLDGF PLLRRLKTLVNNNRICRIG  
 EGLDQALPCL TELILTNNLS VELGDLPLA SLKSLTYLSI LRNPVTNKKH  
 YRLYVIYKVP QVRVLDQKV KLKERQEAEMFKGKRGAL AKDIARRSKT  
 FNPAGLPTD KKKGGPSPGD VEAIKNAIAN ASTLAEVERL KGLLQSGQIP  
 GRERRSGPTD DGEEEMEEDTVTNGS

**Storage**

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

**Pathways**

Formation and Maturation of mRNA Transcript; Gene Expression; Processing of Capped Intron-Containing Pre-mRNA; Spliceosome; mRNA Processing; mRNA Splicing; mRNA Splicing - Major Pathway; mRNA processing

## GENE INFORMATION

**Gene Name** [SNRPA1 small nuclear ribonucleoprotein polypeptide A" \[ Homo sapiens \]](#)

**Official Symbol** [SNRPA1](#)

**Synonyms** SNRPA1; small nuclear ribonucleoprotein polypeptide A"; Lea1; U2 small nuclear ribonucleoprotein A"; U2 snRNP A"; OTTHUMP00000194836; U2 small nuclear ribonucleoprotein polypeptide A"

**Gene ID** [6627](#)

**mRNA Refseq** [NM\\_003090](#)

**Protein Refseq** [NP\\_003081](#)

**MIM** [603521](#)

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<b>UniProt ID</b>	P09661
<b>Chromosome Location</b>	15q26.3
<b>Function</b>	RNA binding; protein binding

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