

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

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

SPECIFICATION

Product Overview	Recombinant human SNRPA1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
Species	Human
Source	E.coli
ProteinLength	1-255 aa
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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 30% glycerol, 0.2M NaCl, 2mM DTT, 0.1mM PMSF.
Molecular Weight	30.5 kDa (275aa), confirmed by MALDI-TOF.
Purity	>80% by SDS-PAGE
Concentration	0.5 mg/ml (determined by Bradford assay)

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Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MVKLTAELIE QAAQYTNAGR DRELDLRGYK IPVIENLGAT LDQFDAIDFS DNEIRKLDGF PLLRRLKTLVNNNRICRIG EGLDQALPCL TELILTNNSL VELGDLPLA SLKSLTYLSI LRNPVTNKKH YRLYVIYKVP QVRVLDQKV KLKERQAEKMFKGKGAQL AKDIARRSKT FNPGAGLPTD KKKGGPSPGD VEAIKNAIAN ASTLAEVERL KGLLQSGQIP GRERRSGPTD DGEEMEEDTVTNGS
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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UniProt ID	P09661
Chromosome Location	15q26.3
Function	RNA binding; protein binding
PDBrendering based on 1a9n.	