Recombinant RU2A protein (His tag)

Catalog Number	542080
Synonyms	U2 snRNP A'
Species	Human
Expression System	E. coli
Accession	P09661
Molecular Weight	Predictes a molecular mass of 29.94 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 32 kDa band.

Product Information

Sequence Region	2-255
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 2-255 aa (P09661) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant Human U2 snRNP A' (SNRPA1) Fragment (aa 2-255) is a high-purity protein designed for studying pre-mRNA splicing mechanisms. This fragment fully encompasses the LRRCT functional domain, making it an ideal tool for targeted research on spliceosome assembly and U2 snRNA interactions. U2 small nuclear ribonucleoprotein A' (U2 snRNP A'), encoded by the SNRPA1 gene in Homo sapiens, is a critical component of the spliceosome involved in pre-mRNA splicing. It functions by associating with U2 snRNP and binding to stem loop IV of U2 snRNA, facilitating accurate intron removal and mRNA maturation. The protein is localized exclusively in the nucleus, where it participates in essential RNA processing events. This recombinant fragment preserves key functional domains while enabling focused investigation into specific molecular interactions within the splicing machinery.