Recombinant RSMN protein (His tag)

Catalog Number	544780
Synonyms	snRNP-N; Sm protein D; Sm-D; Sm protein N; Sm-N; SmN; Tissue-specific-splicing protein
Species	Human
Expression System	E. coli
Accession	P63162
Molecular Weight	Predictes a molecular mass of 12.06 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 12 kDa band.

Product Information

Sequence Region	1-90
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, 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 1-90 aa (P63162) 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	Introducing the recombinant Human SNRPN (snRNP-N) protein fragment (residues 1-90), encompassing the full Sm domain. This high-purity, functional fragment is an essential tool for researchers studying tissue-specific alternative RNA processing and spliceosome mechanisms. The full-length Small nuclear ribonucleoprotein-associated protein N (snRNP-N), encoded by the SNRPN gene, is implicated in tissue-specific alternative RNA processing events, playing a critical role in regulating gene expression through splicing. As a component of the spliceosome, it localizes to the nucleus where it contributes to the precise excision of introns and ligation of exons in pre-mRNA. The Sm domain (residues 4-86) contained within this fragment is essential for snRNP assembly and function, making this product particularly valuable for investigating domain-specific contributions to RNA splicing regulation.