Recombinant SPF30 protein (His tag)

Catalog Number	546570
Synonyms	30 kDa splicing factor SMNrp; SMN-related protein; Survival motor neuron domain-containing protein 1
Species	Human
Expression System	E. coli
Accession	O75940
Molecular Weight	Predictes a molecular mass of 28.37 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 31 kDa band.

Product Information

Sequence Region	1-238
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 1-238 aa (O75940) 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 SMNDC1 (Survival of motor neuron-related-splicing factor 30) fragment (amino acids 1-238) is a high-purity protein designed for studying splicing regulation. This fragment fully encompasses the Tudor domain, making it an ideal tool for investigating domain-specific interactions and functions in spliceosome assembly. The full-length Survival of motor neuron-related-splicing factor 30 (SMNDC1) is a human protein involved in spliceosome assembly, playing a critical role in pre-mRNA splicing. According to experimental evidence, it localizes to nuclear speckles containing snRNPs and Cajal bodies, suggesting its involvement in the organization and dynamics of splicing machinery components. This protein's presence in these nuclear subcompartments highlights its significance in RNA processing and cellular function.