Recombinant RU2B protein (His tag)

Catalog Number	542060
Synonyms	U2 snRNP B''
Species	Human
Expression System	E. coli
Accession	P08579
Molecular Weight	Predictes a molecular mass of 13.10 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 13 kDa band.

Product Information

Sequence Region	1-99
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, 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 1-99 aa (P08579) 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 B'' Fragment (SNRPB2, residues 1-99) is a high-purity protein designed for studying pre-mRNA splicing mechanisms. This fragment contains the essential RRM 1 domain, making it an ideal tool for investigating specific domain functions in spliceosome assembly and U2 snRNA binding. The full-length U2 small nuclear ribonucleoprotein B'' (U2 snRNP B''), encoded by the SNRPB2 gene, is a critical component of the spliceosome involved in pre-mRNA splicing. It functions by associating with U2 snRNP and contributes to the binding of stem loop IV of U2 snRNA, facilitating accurate intron removal and exon ligation. The protein is localized to the nucleus, where it participates in spliceosomal complexes essential for gene expression regulation. This recombinant fragment enables focused research on the RRM 1 domain's role in these processes.