Recombinant SPF27 protein (His tag)

Catalog Number	546569
Synonyms	Breast carcinoma-amplified sequence 2; DNA amplified in mammary carcinoma 1 protein; Spliceosome-associated protein SPF 27
Species	Human
Expression System	E. coli
Accession	O75934
Molecular Weight	Predictes a molecular mass of 27.66 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 29 kDa band.

Product Information

Sequence Region	2-225
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 2-225 aa (O75934) 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 Pre-mRNA-splicing factor SPF27 (BCAS2) Fragment (aa 2-225) - A highly stable and soluble protein fragment ideal for structural studies and biochemical analysis of spliceosome function. This recombinant protein represents a computationally optimized domain of the essential splicing factor BCAS2, providing researchers with a reliable tool for investigating pre-mRNA processing mechanisms. Pre-mRNA-splicing factor SPF27, encoded by the BCAS2 gene, is a crucial component of the activated spliceosome required for pre-mRNA splicing. As part of the PRP19-CDC5L complex, this protein forms an integral part of the spliceosome machinery and is essential for activating pre-mRNA splicing. BCAS2 appears to serve a scaffolding role in spliceosome assembly, as it contacts all other components of the core complex. Beyond its primary function in RNA processing, the PRP19-CDC5L complex may also participate in DNA damage response pathways. The protein is predominantly localized to the nucleus, with additional presence noted in nucleolar compartments, reflecting its central role in nuclear RNA processing events.