Recombinant GEMI6 protein (His tag)

Catalog Number	545569
Synonyms	Gemin-6; SIP2
Species	Human
Expression System	E. coli
Accession	Q8WXD5
Molecular Weight	Predictes a molecular mass of 20.48 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 22 kDa band.

Product Information

Sequence Region	1-167
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 1-167 aa (Q8WXD5) 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 Gem-associated protein 6 (Gemin-6) fragment (amino acids 1-167), a high-purity protein designed for studying the Sm and AD functional domains. This fragment serves as an essential tool for researchers investigating spliceosome assembly and snRNP biogenesis mechanisms. Gemin-6 is a critical component of the SMN complex, which catalyzes the assembly of small nuclear ribonucleoproteins (snRNPs)—the fundamental building blocks of the spliceosome. This complex facilitates pre-mRNA splicing by assembling a heptameric ring of Sm proteins onto snRNAs, forming the core snRNP structure. Gemin-6 is localized in both the nucleus (specifically in nucleoplasm and nuclear gems adjacent to Cajal bodies) and the cytoplasm, reflecting its dynamic role in snRNP maturation and cellular RNA processing pathways.