Recombinant GEMI5 protein (His tag)

Catalog Number	547813
Synonyms	Gemin5
Species	Human
Expression System	E. coli
Accession	Q8TEQ6
Molecular Weight	Predictes a molecular mass of 51.43 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 53 kDa band.

Product Information

Sequence Region	848-1290
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, 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 848-1290 aa (Q8TEQ6) 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 Gem-associated protein 5 (Gemin5) Fragment (residues 848-1290) is a high-purity, stable protein fragment designed for structural and biochemical studies. This 443-amino acid fragment, derived from the GEMIN5 gene, represents a soluble and stable unit ideal for investigating the molecular mechanisms of snRNP assembly and RNA binding. Gemin5 is a critical component of the SMN complex, which catalyzes the assembly of small nuclear ribonucleoproteins (snRNPs)—essential building blocks of the spliceosome involved in pre-mRNA splicing. As part of this complex, Gemin5 recognizes and delivers small nuclear RNAs (snRNAs) and binds to the 7-methylguanosine cap of RNA molecules. Additionally, it regulates the translation of SMN1 mRNA via 3'-UTR binding and may influence protein synthesis through ribosome interactions. Gemin5 localizes to the nucleus (nucleoplasm and gems), often near Cajal bodies, and is also present in the cytoplasm, reflecting its roles in both nuclear snRNP assembly and cytoplasmic RNA regulation.