Recombinant ZN830 protein (His tag)

Catalog Number	548017
Synonyms	Coiled-coil domain-containing protein 16
Species	Human
Expression System	E. coli
Accession	Q96NB3
Molecular Weight	Predictes a molecular mass of 16.12 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 22 kDa band.

Product Information

Sequence Region	251-372
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 251-372 aa (Q96NB3) 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 Zinc finger protein 830 (ZNF830) Fragment (aa 251-372) is a high-purity, stable protein fragment designed for structural and biochemical studies. This 122-amino acid fragment, derived from the coiled-coil domain-containing protein 16, represents a soluble unit ideal for investigating its roles in pre-mRNA splicing, cell cycle regulation, and genome integrity maintenance. Zinc finger protein 830 (ZNF830), also known as coiled-coil domain-containing protein 16, is a nuclear protein involved in pre-mRNA splicing as a component of the spliceosome. It plays a critical role in cell cycle regulation and maintaining genome integrity by preventing replication fork collapse, double-strand break formation, and checkpoint activation in embryonic fibroblasts. The protein is essential for mitotic progression and cell survival in rapidly proliferating tissues like intestinal epithelium and embryonic stem cells. During early development, it controls M-phase progression and oocyte survival by preventing chromosomal breaks. ZNF830 localizes to the nucleus, specifically in nuclear speckles and chromosomes, but is excluded from nucleoli, reflecting its functional association with splicing and chromosomal organization.