Recombinant NU188 protein (His tag)

Catalog Number	545146
Synonyms	hNup188
Species	Human
Expression System	E. coli
Accession	Q5SRE5
Molecular Weight	Predictes a molecular mass of 19.13 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 19 kDa band.

Product Information

Sequence Region	1545-1700
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, 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 1545-1700 aa (Q5SRE5) 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 NUP188 fragment (aa 1545-1700), a high-quality protein product derived from the essential nuclear pore complex component Nucleoporin NUP188. This 156-amino acid fragment has been computationally optimized for stability and solubility, making it an ideal tool for structural studies, biochemical assays, and nuclear transport research. Nucleoporin NUP188 (hNup188) is a critical component of the nuclear pore complex (NPC), which mediates all nucleocytoplasmic transport across the nuclear envelope. As evidenced by research (PubMed:32275884), NUP188 plays an essential role in proper protein transport into the nucleus, making it fundamental to understanding nuclear-cytoplasmic communication and cellular regulation. The protein localizes specifically to the nuclear pore complex within the nucleus, where it contributes to the selective barrier and transport machinery that controls molecular movement between cellular compartments.