Recombinant NUP58 protein (His tag)

Catalog Number	548130
Synonyms	58 kDa nucleoporin; Nucleoporin-like protein 1
Species	Human
Expression System	E. coli
Accession	Q9BVL2
Molecular Weight	Predictes a molecular mass of 26.64 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 27 kDa band.

Product Information

Sequence Region	248-466
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, 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 248-466 aa (Q9BVL2) 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 NUP58 (Nucleoporin p58/p45) Fragment (aa 248-466) is a high-quality protein product designed for structural and biochemical studies. This 219-amino acid fragment represents a stable and soluble unit of the nucleoporin, ideal for investigating nuclear pore complex mechanisms and nucleocytoplasmic transport processes. Nucleoporin p58/p45 (encoded by the NUP58 gene) is an essential component of the nuclear pore complex, which mediates molecular trafficking across the nuclear membrane. As a peripheral membrane protein localized to both cytoplasmic and nucleoplasmic sides of the nuclear envelope, it plays a critical role in bidirectional transport between the nucleus and cytoplasm. The protein resides within the central transporter region of the nuclear pore complex, with a bias toward the cytoplasmic side, positioning it strategically for regulating macromolecular transport. This fragment provides researchers with a defined structural unit for studying nucleoporin function without the complexities of the full-length membrane-associated protein.