Recombinant NUP43 protein (His tag)

Catalog Number	545482
Synonyms	Nup107-160 subcomplex subunit Nup43; p42
Species	Human
Expression System	E. coli
Accession	Q8NFH3
Molecular Weight	Predictes a molecular mass of 34.30 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 35 kDa band.

Product Information

Sequence Region	1-292
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 1-292 aa (Q8NFH3) 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 Nup43 (Nucleoporin Nup43) Fragment (1-292) is a high-quality protein product representing a stable and soluble unit of the Nup107-160 subcomplex subunit. This fragment is ideal for structural studies, biochemical assays, and investigating nuclear pore complex assembly and mitotic functions. Nucleoporin Nup43 is a key component of the Nup107-160 subcomplex within the nuclear pore complex (NPC), essential for proper NPC assembly and function. It plays a critical role in mitotic processes, including kinetochore microtubule attachment, mitotic progression, and chromosome segregation. The protein localizes to the nuclear pore complex, centromere, and kinetochore, underscoring its importance in nuclear transport and cell division. This recombinant fragment (amino acids 1-292) was selected for its stability and solubility, enabling detailed mechanistic studies of Nup43's contributions to nuclear organization and mitosis.