Recombinant RN121 protein (His tag)

Catalog Number	549377
Synonyms	RING finger protein 121
Species	Human
Expression System	E. coli
Accession	Q9H920
Molecular Weight	Predictes a molecular mass of 14.86 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 15 kDa band.

Product Information

Sequence Region	193-305
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 193-305 aa (Q9H920) 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 E3 ubiquitin ligase RNF121 (EC 2.3.2.27) fragment (residues 193-305), a 113-amino acid soluble unit designed for structural and biochemical studies. This high-quality protein enables investigation of ubiquitin transfer mechanisms and endoplasmic reticulum-associated degradation (ERAD) pathways. RNF121 is an E3 ubiquitin ligase that facilitates ubiquitin transfer to substrates, targeting misfolded proteins for degradation via the ERAD pathway. This process is critical for maintaining endoplasmic reticulum (ER) homeostasis, potentially regulating the unfolded protein response to mitigate ER stress. The full-length protein is localized to the ER membrane as a multi-pass membrane protein, underscoring its role in quality control of ER proteins. The provided fragment offers a stable, soluble representation ideal for elucidating RNF121's functional domains and mechanisms.