Recombinant RNF13 protein (His tag)

Catalog Number	541783
Synonyms	RING finger protein 13
Species	Human
Expression System	E. coli
Accession	O43567
Molecular Weight	Predictes a molecular mass of 18.03 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 19 kDa band.

Product Information

Sequence Region	35-182
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 35-182 aa (O43567) 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-protein ligase RNF13 (EC 2.3.2.27) fragment (residues 35-182) is a high-purity protein tool designed for investigating the specific functions of the PA domain. This fragment supports research into ubiquitination pathways, cell proliferation, apoptosis, and ER stress signaling. E3 ubiquitin-protein ligase RNF13 is a key regulator of cell proliferation and apoptosis, and it mediates ER stress-induced activation of the JNK signaling pathway and apoptosis by promoting ERN1 activation and splicing of XBP1 mRNA. It also plays a role in protein trafficking and localization. The full-length protein is localized to the endoplasmic reticulum membrane, late endosome membrane, lysosome membrane, and nucleus inner membrane as a single-pass type I membrane protein, and it can relocalize to recycling endosomes and the inner nuclear membrane under certain conditions. The provided fragment (residues 35-182) encompasses the PA domain, making it an ideal reagent for domain-specific functional studies.