Recombinant RN181 protein (His tag)

Catalog Number	543782
Synonyms	RING finger protein 181
Species	Human
Expression System	E. coli
Accession	Q9P0P0
Molecular Weight	Predictes a molecular mass of 19.56 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 22 kDa band.

Product Information

Sequence Region	1-153
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 1-153 aa (Q9P0P0) 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 RNF181 (EC 2.3.2.27) fragment (residues 1-153) is a high-quality, stable protein designed for structural and biochemical studies. This fragment encompasses the full-length RING finger domain, offering a soluble and functional unit ideal for investigating ubiquitination mechanisms and proteasome regulation. E3 ubiquitin-protein ligase RNF181 is a key enzyme in the ubiquitin-proteasome system, responsible for transferring ubiquitin to specific substrates, thereby targeting them for degradation or functional modification. It catalyzes the monoubiquitination of the 26S proteasome subunit PSMC2/RPT1, implicating it in the regulation of proteasomal activity and protein homeostasis. This role highlights its significance in cellular quality control and potential involvement in disease pathways, making it a valuable target for biochemical and therapeutic research.