Recombinant CAN7 protein (His tag)

Catalog Number	543987
Synonyms	PalB homolog; PalBH
Species	Human
Expression System	E. coli
Accession	Q9Y6W3
Molecular Weight	Predictes a molecular mass of 18.94 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 22 kDa band.

Product Information

Sequence Region	1-152
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 1-152 aa (Q9Y6W3) 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 Calpain-7 (CAPN7) Fragment (1-152) is a high-purity protein product designed for structural and biochemical studies. This fragment represents a stable, soluble unit of the calcium-regulated thiol-protease, optimized for experimental reliability and reproducibility. Calpain-7, encoded by the CAPN7 gene in humans, is a calcium-regulated non-lysosomal thiol-protease involved in proteolytic processes. It is localized in the nucleus, suggesting potential roles in nuclear signaling or protein regulation. The full-length protein functions as a calcium-dependent enzyme, contributing to cellular proteolysis pathways distinct from lysosomal degradation systems.