Recombinant CPR6 protein (His tag)

Catalog Number	535237
Synonyms	Cysteine protease-related 6
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	P43510
Gene ID	180931
Molecular Weight	Predictes a molecular mass of 32.19 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 34 kDa band.

Product Information

Sequence Region	105-379
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 105-379 aa (P43510) 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 Cathepsin B-like cysteine proteinase 6 (EC 3.4.22.-) fragment (residues 105-379) from Caenorhabditis elegans, designed as a stable and soluble unit for structural and biochemical studies. Cathepsin B-like cysteine proteinase 6, encoded by the cpr-6 gene in Caenorhabditis elegans, is a cysteine protease implicated in proteolytic processes. While specific functional and localization details are not fully characterized, cysteine proteases generally play critical roles in protein turnover, cellular signaling, and developmental regulation. The provided fragment (residues 105-379) encompasses a computationally predicted stable domain, facilitating investigations into its structural properties and enzymatic mechanisms.