Recombinant UBPY protein (His tag)

Catalog Number	535513
Synonyms	Deubiquitinating enzyme; Ubiquitin thioesterase; Ubiquitin-specific-processing protease
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	Q09931
Gene ID	174300
Molecular Weight	Predictes a molecular mass of 34.68 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 35 kDa band.

Product Information

Sequence Region	872-1160
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 872-1160 aa (Q09931) 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	This recombinant protein product features a 289-amino acid fragment (residues 872-1160) of the Probable ubiquitin carboxyl-terminal hydrolase K02C4.3 from Caenorhabditis elegans. This deubiquitinating enzyme fragment has been specifically engineered for structural and biochemical studies, representing a stable and soluble unit ideal for research applications. The full-length Probable ubiquitin carboxyl-terminal hydrolase K02C4.3 (EC 3.4.19.12) functions as a deubiquitinating enzyme and ubiquitin-specific-processing protease, playing a crucial role in the ubiquitin-proteasome system by cleaving ubiquitin from protein substrates. As a ubiquitin thioesterase, this enzyme is involved in the regulation of protein degradation and cellular signaling pathways. The selected fragment (872-1160) was computationally designed to provide a stable, soluble representation of the protein domain suitable for detailed structural analysis and functional characterization in research settings.