Recombinant ZIP3 protein (His tag)

Catalog Number	534480
Synonyms	BZIP transcription factor family zip-3
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	Q9XUK2
Gene ID	189280
Molecular Weight	Predictes a molecular mass of 12.67 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 15 kDa band.

Product Information

Sequence Region	215-307
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, 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 215-307 aa (Q9XUK2) 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 zip-3 bZIP domain fragment (amino acids 215-307) from Caenorhabditis elegans, providing researchers with a specialized tool for studying the structural and functional properties of this key transcription factor domain involved in mitochondrial stress response and bacterial infection defense mechanisms. Transcription factor zip-3 is a BZIP family protein that functions as a negative modulator of the mitochondrial unfolded protein response (mtUPR) and plays a role in the organism's defense against Gram-negative bacterial infections, specifically Pseudomonas aeruginosa. The protein localizes to the nucleus, consistent with its role as a transcription factor. The full-length protein's ability to regulate mitochondrial stress response pathways makes it an important target for understanding cellular stress mechanisms and host-pathogen interactions in C. elegans models.