Recombinant HM02 protein (His tag)

Catalog Number	534280
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	G5ECT8
Gene ID	191615
Molecular Weight	Predictes a molecular mass of 14.33 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 15 kDa band.

Product Information

Sequence Region	99-209
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 99-209 aa (G5ECT8) 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 Homeobox protein ceh-2 fragment (residues 99-209) from Caenorhabditis elegans, engineered for stability and solubility to support structural and biochemical research on pharyngeal motor neuron function. The full-length Homeobox protein ceh-2, encoded by the ceh-2 gene, is essential for the activity of the M3 pharyngeal motor neuron in Caenorhabditis elegans, as demonstrated by experimental evidence. It localizes to the nucleus, indicating its role in transcriptional regulation. This fragment (99-209) was computationally selected to provide a stable, soluble unit for detailed mechanistic studies, enabling researchers to investigate its functional domains without the complexities of the full-length protein.