Recombinant HM19 protein (His tag)

Catalog Number	534733
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	P26797
Gene ID	177590
Molecular Weight	Predictes a molecular mass of 14.40 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 14 kDa band.

Product Information

Sequence Region	53-159
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 53-159 aa (P26797) 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-19 fragment (residues 53-159) from Caenorhabditis elegans is a high-purity, soluble protein designed for structural and biochemical studies. This 107-amino acid fragment represents a stable, functionally relevant region ideal for investigating transcription factor mechanisms and neuronal differentiation pathways. Homeobox protein ceh-19 is a transcription factor essential for MC motor neuron differentiation and function in Caenorhabditis elegans. It regulates pharyngeal pumping activity and controls expression of the FMRFamide-like neuropeptide flp-2 in MC motor neurons, potentially acting downstream of transcription factor pha-4. The protein localizes to the nucleus, consistent with its role in gene regulation. This fragment was computationally selected to provide a stable, soluble unit for experimental applications while maintaining structural integrity.