Recombinant CHE13 protein (His tag)

Catalog Number	532844
Synonyms	Chemotaxis abnormal protein 13
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	Q93833
Gene ID	186607
Molecular Weight	Predictes a molecular mass of 22.99 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 24 kDa band.

Product Information

Sequence Region	226-412
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, 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 226-412 aa (Q93833) 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 Intraflagellar transport protein che-13 (Chemotaxis abnormal protein 13) fragment (residues 226-412) from Caenorhabditis elegans, designed for structural and biochemical studies. This 187-amino acid fragment represents a stable, soluble region ideal for investigating ciliary transport mechanisms and chemosensory functions. The full-length Intraflagellar transport protein che-13 is a component of the intraflagellar transport (IFT) complex B, essential for protein transport within motile cilia. It facilitates the ciliary entry and transport of specific cargo proteins, such as che-3, which are critical for ciliary motility. Additionally, che-13 is required for the development of functional chemosensory cilia that detect environmental cues. The protein localizes to the cytoplasm and cilium axoneme, where it dynamically moves along the axonemal structure, underscoring its role in maintaining ciliary function and sensory perception.