Recombinant ZIG3 protein (His tag)

Catalog Number	533615
Synonyms	2 Ig domain protein zig-3
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	G5EEY6
Gene ID	192088
Molecular Weight	Predictes a molecular mass of 27.57 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 28 kDa band.

Product Information

Sequence Region	20-251
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, 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 20-251 aa (G5EEY6) 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 Zwei Ig domain protein zig-3 fragment (amino acids 20-251) from Caenorhabditis elegans, encompassing both Ig-like C2-type domains. This high-quality protein is ideal for studying axon positioning mechanisms in neuronal development and maintenance. The full-length Zwei Ig domain protein zig-3 is a secreted protein essential for maintaining proper axon positioning of PVQ and PVP neurons in the ventral nerve cord during postembryonic development in C. elegans. It functions to prevent axon drifting into the opposite side of the nerve cord that could occur during body growth and movement, ensuring precise neuronal circuit formation. As a secreted protein, zig-3 operates in the extracellular environment, where it likely mediates cell-cell recognition and adhesion processes critical for neuronal organization and stability.