Recombinant ZIG8 protein (His tag)

Catalog Number	535182
Synonyms	2 Ig domain protein zig-8
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	G5ED00
Gene ID	176732
Molecular Weight	Predictes a molecular mass of 29.51 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 30 kDa band.

Product Information

Sequence Region	22-268
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, 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 22-268 aa (G5ED00) 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-8 (22-268) is a high-quality fragment encompassing the complete Ig-like C2-type 1 and Ig-like C2-type 2 domains. This product is engineered for studying neuronal positioning mechanisms in Caenorhabditis elegans, offering researchers a targeted tool to investigate domain-specific functions in cell body and axon maintenance. The full-length Zwei Ig domain protein zig-8 is a secreted protein from Caenorhabditis elegans that functions postembryonically in conjunction with zig-5 to maintain the precise positioning of ASI and ASH head neuron cell bodies, as well as ventral nerve cord axons of PVQ, PVP, and HSN neurons. It plays a critical role in preventing displacement of these neural structures during body growth and movement, potentially by modulating the adhesion properties of the L1CAM-like protein sax-7 (long isoform). This protein's involvement in neuronal organization highlights its significance in neurodevelopmental and cell adhesion research.