Recombinant ZIG1 protein (His tag)

Catalog Number	534066
Synonyms	2 Ig domain protein zig-1
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	G5EGI7
Gene ID	192086
Molecular Weight	Predictes a molecular mass of 22.37 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 22 kDa band.

Product Information

Sequence Region	45-232
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 45-232 aa (G5EGI7) 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-1 fragment (amino acids 45-232) from Caenorhabditis elegans, encompassing the complete Ig-like C2-type 2 domain. This purified fragment serves as an essential tool for investigating the specific functional properties of the immunoglobulin domains in neuronal positioning studies. Zwei Ig domain protein zig-1 is a single-pass type I membrane protein localized to the cell membrane in Caenorhabditis elegans. Research evidence indicates that zig-1 is probably not involved in maintaining the positional integrity of specific head neuron cell bodies (ASI and ASH) and ventral nerve cord axons of PVQ, PVP, RMEV, AVK, and HSN neurons. This suggests the protein may have alternative, yet-to-be-defined roles in neuronal organization or other cellular processes, making the study of its immunoglobulin domains crucial for understanding its complete biological function.