Recombinant RIG3 protein (His tag)

Catalog Number	531647
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	Q18806
Gene ID	180958
Molecular Weight	Predictes a molecular mass of 50.74 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 57 kDa band.

Product Information

Sequence Region	32-466
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 32-466 aa (Q18806) 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 Neuronal immunoglobulin domain-containing protein rig-3 (rig-3) fragment (residues 32-466) from Caenorhabditis elegans. This 435-amino acid fragment includes the complete Ig-like 1 and Ig-like 2 domains, making it an ideal tool for investigating domain-specific functions in cholinergic synapse plasticity and neuronal polarity. The full-length Neuronal immunoglobulin domain-containing protein rig-3 is a cell surface protein that plays a critical role in the plasticity of cholinergic synapses at neuromuscular junctions and in establishing the polarity of mechanosensory neurons, potentially through antagonism of Wnt signaling pathways. It localizes to axons, synapses, and the cell membrane, where it is anchored via a GPI-link. Membrane association is essential for its synaptic function, highlighting its importance in neuronal development and signaling processes.