Recombinant INX10 protein (His tag)

Catalog Number	534830
Synonyms	Protein opu-10
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	Q22549
Gene ID	188580
Molecular Weight	Predictes a molecular mass of 11.11 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 11 kDa band.

Product Information

Sequence Region	203-282
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 203-282 aa (Q22549) 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 Innexin-10 (Protein opu-10) Fragment (203-282) from Caenororhabditis elegans is a highly stable and soluble 80-amino acid protein unit, ideal for structural biology and biochemical studies of gap junction components. Innexin-10 (encoded by the inx-10 gene) is a structural component of gap junctions, which are critical for direct intercellular communication. As a multi-pass membrane protein, it localizes to the cell membrane and gap junction complexes, facilitating the selective transfer of ions and small molecules between adjacent cells. This fragment represents a computationally optimized region designed to maintain structural integrity while enabling experimental analysis of Innexin-10's functional domains.