Recombinant PP4C2 protein (His tag)

Catalog Number	535953
Synonyms	PP4C-2
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	Q9XTT8
Gene ID	176663
Molecular Weight	Predictes a molecular mass of 37.96 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 41 kDa band.

Product Information

Sequence Region	1-321
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 1-321 aa (Q9XTT8) 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 Serine/threonine-protein phosphatase 4 catalytic subunit 2 (PP4C-2) from Caenorhabditis elegans, encompassing amino acids 1-321. This fragment is optimized for stability and solubility, ideal for structural studies and biochemical assays investigating phosphatase activity in larval development. The full-length Serine/threonine-protein phosphatase 4 catalytic subunit 2 (PP4C-2) is a protein phosphatase (EC 3.1.3.16) encoded by the pph-4.2 gene in Caenorhabditis elegans. Based on functional evidence, it plays a role in larval development but is not essential for embryogenesis, highlighting its specific importance in post-embryonic growth processes. The recombinant fragment (1-321) represents a computationally selected stable and soluble unit, facilitating research into its catalytic mechanisms and developmental functions.