Recombinant PTR18 protein (His tag)

Catalog Number	534482
Synonyms	Patched domain-containing protein 18
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	Q9XWL9
Gene ID	174940
Molecular Weight	Predictes a molecular mass of 31.67 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 32 kDa band.

Product Information

Sequence Region	1-259
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, 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 1-259 aa (Q9XWL9) 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 Patched-related protein 18 (Ptr-18) fragment (residues 1-259), derived from Caenorhabditis elegans, offers a stable and soluble unit ideal for investigating hedgehog-related protein regulation and cellular quiescence mechanisms in developmental biology research. Patched-related protein 18, encoded by the ptr-18 gene in Caenorhabditis elegans, functions as a transporter that facilitates the endocytosis-mediated degradation of hedgehog-related proteins like grl-7. This activity is critical for establishing progenitor cell quiescence during arrested L1 stage larval development. The protein localizes to the apical cell membrane as a multi-pass membrane protein, particularly during the 3-fold embryonic stage, underscoring its role in key developmental processes.