Recombinant PEX19 protein (His tag)

Catalog Number	534992
Synonyms	Peroxin-19
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	P34453
Gene ID	176239
Molecular Weight	Predictes a molecular mass of 32.31 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 39 kDa band.

Product Information

Sequence Region	1-279
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 1-279 aa (P34453) 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 Putative Peroxisomal Biogenesis Factor 19 (Peroxin-19) from Caenorhabditis elegans, featuring a stable 279-amino acid fragment (residues 1-279) optimized for structural and biochemical studies. This high-quality protein preparation enables researchers to investigate peroxisomal biogenesis mechanisms with enhanced solubility and stability. Putative Peroxisomal Biogenesis Factor 19 (Peroxin-19), encoded by the prx-19 gene in Caenorhabditis elegans, is localized to peroxisomes as indicated by its subcellular location annotation. Peroxisomes are essential organelles involved in various metabolic processes including fatty acid oxidation and reactive oxygen species metabolism. Proteins like Peroxin-19 play critical roles in peroxisomal biogenesis and maintenance, making them important targets for understanding cellular organelle dynamics and metabolic regulation pathways.