Recombinant PEX3 protein (His tag)

Catalog Number	537855
Synonyms	Peroxin-3; Peroxisomal assembly protein PEX3
Species	Human
Expression System	E. coli
Accession	P56589
Molecular Weight	Predictes a molecular mass of 27.55 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 28 kDa band.

Product Information

Sequence Region	141-373
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 141-373 aa (P56589) 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	This recombinant protein represents a stable and soluble fragment (residues 141-373) of human Peroxisomal biogenesis factor 3 (Peroxin-3/PEX3), essential for peroxisome biosynthesis and membrane assembly. This fragment is ideal for structural studies, biochemical assays, and investigating peroxisomal membrane protein import mechanisms. Peroxisomal biogenesis factor 3 (PEX3) is a multi-pass membrane protein localized to the peroxisome membrane, where it plays a critical role in peroxisome biosynthesis and integrity. It functions as a docking factor for PEX19, facilitating the import of peroxisomal membrane proteins and assembling membrane vesicles prior to the translocation of matrix proteins. This process is vital for maintaining peroxisomal function in cellular metabolism and signaling pathways.