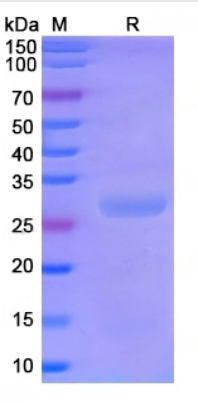
PEX3 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	PEX3, Recombinant Protein
Full Product Name	Recombinant Human PEX3 Protein, N-His
Product Gene Name	PEX3 recombinant protein
Product Synonym Names	Peroxin-3; Peroxisomal assembly protein PEX3; Peroxisomal biogenesis factor 3; PEX3
Host	E coli
Form/Format	Lyophilized from a solution in PBS pH7.4, 0.02% NLS, 1mM EDTA, 4% Trehalose, 1% Mannitol.
Purity/Purification	>90% as determined by SDS-PAGE
Preparation and Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 degree C for one week. Store at -20 to -80 degree C for twelve months from the date of receipt.
Molecular Weight	42,140 Da
Sequence Positions	Tyr141-Lys373
Chromosome Location	Chromosome: 6; NC_000006.11 (143771918..143811753). Location: 6q24.2
OMIM	603164
3D Structure	ModBase 3D Structure for P56589
Species	Human
Reconstitution	Reconstitute in sterile water for a stock solution.
Product Categories/Family for PEX3 recombinant protein	Recombinant Proteins
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for PEX3 recombinant protein	SDS-PAGE (SDS), Western Blot (WB), ELISA (EIA), Immunogen
Related Product Information for PEX3 recombinant protein	MBS1577489 is a recombinant protein targeting PEX3. Also known as Recombinant Human PEX3 Protein, N-His. Host: E coli.
Other Notes	Small volumes of PEX3 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



SDS-Page of PEX3 recombinant protein
SDS PAGE for Recombinant Human PEX3 Protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PEX3. It may not necessarily be applicable to this product.

NCBI GI #	4505727
NCBI GeneID	8504
NCBI Accession #	NP_003621.1
UniProt Primary Accession #	P56589
UniProt Secondary Accession #	Q6FGP5
UniProt Related Accession #	P56589
GenBank Nucleotide #	NM_003630.2
NCBI Official Full Name	peroxisomal biogenesis factor 3
NCBI Official Synonym Full Names	peroxisomal biogenesis factor 3
NCBI Official Symbol	PEX3
NCBI Official Synonym Symbols	TRG18; PBD10A
UniProt Protein Name	Peroxisomal biogenesis factor 3
UniProt Synonym Protein Names	Peroxin-3; Peroxisomal assembly protein PEX3
Protein Family	Peroxisomal biogenesis factor
UniProt Gene Name	PEX3
UniProt Entry Name	PEX3_HUMAN
NCBI Protein Information	peroxisomal biogenesis factor 3; peroxin-3; peroxisomal assembly protein PEX3; transformation-related protein 18
NCBI Summary for PEX3	The product of this gene is involved in peroxisome biosynthesis and integrity. It assembles membrane vesicles before the matrix proteins are translocated. Peroxins (PEXs) are proteins that are essential for the assembly of functional peroxisomes. The peroxisome biogenesis disorders (PBDs) are a group of genetically heterogeneous autosomal recessive, lethal diseases characterized by multiple defects in peroxisome function. The peroxisomal biogenesis disorders are a heterogeneous group with at least 14 complementation groups and with more than 1 phenotype being observed in cases falling into particular complementation groups. Although the clinical features of PBD patients vary, cells from all PBD patients exhibit a defect in the import of one or more classes of peroxisomal matrix proteins into the organelle. Defects in this gene are a cause Zellweger syndrome (ZWS). [provided by RefSeq, Oct 2008]

UniProt Comments for PEX3	PEX3: Involved in peroxisome biosynthesis and integrity. Assembles membrane vesicles before the matrix proteins are translocated. As a docking factor for PEX19, is necessary for the import of peroxisomal membrane proteins in the peroxisomes. Defects in PEX3 are the cause of peroxisome biogenesis disorder complementation group 12 (PBD-CG12); also known as PBD-CGG. PBD refers to a group of peroxisomal disorders arising from a failure of protein import into the peroxisomal membrane or matrix. The PBD group is comprised of four disorders: Zellweger syndrome (ZWS), neonatal adrenoleukodystrophy (NALD), infantile Refsum disease (IRD), and classical rhizomelic chondrodysplasia punctata (RCDP). ZWS, NALD and IRD are distinct from RCDP and constitute a clinical continuum of overlapping phenotypes known as the Zellweger spectrum. The PBD group is genetically heterogeneous with at least 14 distinct genetic groups as concluded from complementation studies. Defects in PEX3 are a cause of Zellweger syndrome (ZWS). ZWS is a fatal peroxisome biogenesis disorder characterized by dysmorphic facial features, hepatomegaly, ocular abnormalities, renal cysts, hearing impairment, profound psychomotor retardation, severe hypotonia and neonatal seizures. Death occurs within the first year of life. Belongs to the peroxin-3 family. Protein type: Membrane protein, multi-pass; Transporter; Vesicle; Transporter, ABC family; Membrane protein, integral Chromosomal Location of Human Ortholog: 6q24.2 Cellular Component: nucleoplasm; peroxisomal membrane; integral to peroxisomal membrane; protein complex; intracellular membrane-bound organelle; membrane; endoplasmic reticulum; peroxisome; cytosol Molecular Function: protein dimerization activity; protein binding; lipid binding; amino acid transmembrane transporter activity Biological Process: peroxisome organization and biogenesis; protein import into peroxisome membrane; peroxisome membrane biogenesis; transmembrane transport Disease: Peroxisome Biogenesis Disorder 10a (zellweger)
Research Articles on PEX3	**1.** Mutations in the PEX19-binding domain of PEX3 reduce the affinity for PEX19 and destabilize PEX3.
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