

Recombinant Human PEX19, His-tagged

Cat. No. PEX19-27601TH Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant full length Human PEX19 with an N terminal His tag; 316aa, 34.6kDa inclusive of tag.

Species Human

Source E.coli

ProteinLength 296 amino acids

Description This gene is necessary for early peroxisomal biogenesis. It acts both as a cytosolic chaperone and as an import receptor for peroxisomal membrane proteins (PMPs). Peroxisins (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. These disorders have at least 14 complementation groups, with more than one phenotype being observed for some 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 of Zellweger syndrome (ZWS), as well as peroxisome biogenesis disorder complementation group 14 (PBD-CG14), which is also known as PBD-CGJ. Alternative splicing results in multiple transcript variants.

Conjugation HIS

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Molecular Weight	34.600kDa inclusive of tags
Tissue specificity	Ubiquitously expressed. Isoform 1 is strongly predominant in all tissues except in utero where isoform 2 is the main form.
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	pH: 8.00 Constituents: 10% Glycerol, 0.32% Tris HCl
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHSSGLVPRGSHMAAAEEGCSVGAEADRELEELLESALDDDFDKAKPS PAPPSTTTAPDASGPQKRSPGDTAKDALFASQEKFFQELFDSELASQATAEFEKAM KELAEELPHLVEQFQKLSEAAGRVGSDMTSQQEFTSCLKETLSGLAKNATDLQNSS MSEEELTKAMEGLGMDEGDGEGNILPIMQSIMQNLLSKDVLPSLKEITEKYPEWLQ SHRESLPPEQFEKYQEQHSVMCKICEQFEAETPTDSETTQKARFEMVLDLMQQLQD LGHPKELAGEMPPGLNFDLDALNLSGPPGASGEQC
Sequence Similarities	Belongs to the peroxin-19 family.

GENE INFORMATION

Gene Name	PEX19 peroxisomal biogenesis factor 19 [Homo sapiens]
Official Symbol	PEX19
Synonyms	PEX19; peroxisomal biogenesis factor 19; peroxisomal farnesylated protein , PXF;

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D1S2223E; HK33; housekeeping gene; 33kD; PMP1; PMPI; PXMP1;

Gene ID

5824

mRNA Refseq

NM_001193644

Protein Refseq

NP_001180573

Uniprot ID

P40855

**Chromosome
Location**


1q22

Pathway

ABC-family proteins mediated transport, organism-specific biosystem; ABCA transporters in lipid homeostasis, organism-specific biosystem; Peroxisome, organism-specific biosystem; Peroxisome, conserved biosystem; Transmembrane transport of small molecules, organism-specific biosystem;

Function

protein N-terminus binding; protein binding;

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