

Recombinant Human PEX5 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PEX5-4458H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PEX5 MS Standard C13 and N15-labeled recombinant protein (NP_000310) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The product of this gene binds to the C-terminal PTS1-type tripeptide peroxisomal targeting signal (SKL-type) and plays an essential role in peroxisomal protein import. Peroxis (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 of neonatal adrenoleukodystrophy (NALD), a cause of Zellweger syndrome (ZWS) as well as may be a cause of infantile Refsum disease (IRD). Alternatively spliced transcript variants encoding different isoforms have been identified.
Molecular Mass	69.9 kDa

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

AA Sequence

MAMRELVEAECGGANPLMKLAGHFTQDKALRQEGLRPGWPPGAPASEAASKPL
 GVASEDELVAEFLQDQNAFLVSRAPQTFKMDDLAEQQIEQSNFRQAPQRAPGV
 ADLALSENWAQEFLLAAGDAVDVTQDYNEDWSQEFISEVTDPLSVSPARWAELEYE
 QSEEKLWLGEPEGTATDRWYDEYHPEEDLQHTASDFVAKVDDPKLANSEFLKFVR
 QIGEGQVSLESGAGSGRAQAEQWAAEFIQQGTSDAWVDQFTRPVNTSALDMEFE
 RAKSAIELQAELEEMAKRDAAHPWLSYDDLT SATYDKGYQFEEENPLRDHPQPF
 EEGLRRLQEGDLPNAVLLFEAAVQQDPKHMEAWQYL GTTQAENEQELLAISALRRC
 LELKPDNQTALMALAVSFTNESLQRQACETLRDWLRYTPAYAHLVTPAEEGAGGAG
 LGPSKRILGSLLSDSLFLVKELFLAAVRLDPTSIDPDVQCGLGVLFNLSGEYDKAVD
 CFTAALSVRPNDYLLWNKLGATLANGNQSEEAAVYRRALQLPGYIRSRYNLIGISC
 INLGAHREAVEHFLEALNMQRKSRGPRGEGGAMSENIWSTLRLALSMLGQSDAYG
 AADARDLSTLLTMFGPLPQSGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining

Stability

Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage

Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration

50 µg/mL as determined by BCA

Storage Buffer

100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION
Gene Name

PEX5 peroxisomal biogenesis factor 5 [Homo sapiens (human)]

Official Symbol

PEX5

Synonyms

PEX5; peroxisomal biogenesis factor 5; peroxisome receptor 1, PXR1; PTS1R;

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peroxin-5; PTS1 receptor; peroxisome receptor 1; peroxisomal targeting signal 1 receptor; peroxisomal targeting signal receptor 1; peroxisomal targeting signal import receptor; peroxisomal targeting signal 1 (SKL type) receptor; peroxisomal C-terminal targeting signal import receptor; PXR1; PTS1-BP; FLJ50634; FLJ50721; FLJ51948;

Gene ID 5830

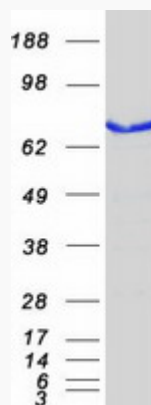
mRNA Refseq NM_000319

Protein Refseq NP_000310

MIM 600414

UniProt ID P50542

SDS-PAGE



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