

Recombinant Full Length Human PEX5 Protein, C-Flag-tagged

Cat. No. PEX5-1651HFL Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human PEX5 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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. 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. 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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.

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

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

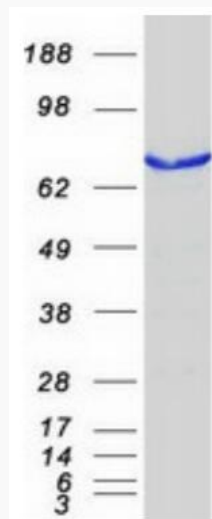
 45-1 Ramsey Road, Shirley, NY 11967, USA

Molecular Mass	69.7 kDa
AA Sequence	MAMRELVEAECGGANPLMKLAGHFTQDKALRQEGLRPGWPWGAPASEAASKPL GVASEDELVAEFLQDQ NAPLVSRAPQTFKMDDLAEQQIEQSNFRQAPQRAPGV ADLALSENWAQEFLLAAGDAVDVTQDYNEDW SQEFISEVTDPLSVSPARWAEYYL EQSEEKLWLGEPEGTATDRWYDEYHPEEDLQHTASDFVAKVDDPKL ANSEFLKFV RQIGEGQVSLESGAGSGRAQAEQWAAEFIQQGTSDAWVDQFTRPVNTSALDMEF ERAKSA IELQAELEEMAKRDAAHPWLSYDDLTSAKYDKGYQFEEENPLRDHPQ PFEEGLRRLQEGDLNPAVLLF EAAVQQDPKHMEAWQYLGTTQAENEQELLAISALR RCLELKPNDQTALMALAVSFTNESLQRQACETLRD WLRYPAYAHVTPAEEGAG GAGLGPSKRILGSLSDSLFLEVKEFLAAVRLDPTSIDPDVQCGLGVLF NLSGEYDK AVDCFTAALSVRPNDYLLWNKLGATLANGNQSEEAVAAAYRRALQLPGYIRSRYNL GISCIN LGAHREAVEHFLEALNMQRKSRGPRGEGGAMSENIWSTLRLALSMLGQSD AYGAADARDLSTLLTMFGLP QSGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome

Full Length

Full L.

GENE INFORMATION**Gene Name** PEX5 peroxisomal biogenesis factor 5 [Homo sapiens (human)]**Official Symbol** PEX5**Synonyms** PXR1; PBD2A; PBD2B; PTS1R; RCDP5; PTS1-BP**Gene ID** 5830**mRNA Refseq** NM_000319.5**Protein Refseq** NP_000310.2**MIM** 600414**UniProt ID** P50542 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



Coomassie blue staining of purified PEX5 protein.

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