Recombinant human PEX26 protein

Catalog Number: ATGP2196

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-246aa

UniProt No.
Q7Z412

NCBI Accession No.
NP_001121121

Alternative Names
Peroxisome assembly protein 26, PBD7A, PBD7B, PEX26M1T, Pex26pM1T

PRODUCT SPECIFICATION

Molecular Weight
29.3 kDa (269aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT

Purity
> 90% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
PEX26 belongs to the peroxin-26 gene family. It is probably required for protein import into peroxisomes. It anchors PEX1 and PEX6 to peroxisome membranes, possibly to form heteromeric AAA ATPase complexes required for the import of proteins into peroxisomes. Defects in this gene are the cause of peroxisome biogenesis disorder complementation group 8 (PBD-CG8). 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),

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and classical rhizomelic chondrodysplasia punctata (RCDP). Alternatively spliced transcript variants have been identified for this gene. Recombinant human PEX26 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

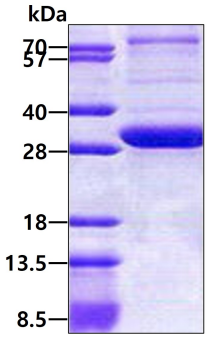
<MGSSHHHHHH SSGLVPRGSH MGS>MKSDSST SAAPLRGLGG PLRSSEPVRA VPARAPAVDL LEEAADLLVV HLDFRAALET CERAWQSLAN HAVAEEPAGT SLEVKCSLCV VGIQALAEMD RWQEVLSWVL QYYQVPEKLP PKVLELCILL YSKMQEPGAV LDVVGAWLQD PANQNLPEYG ALAEFHVQRV LLPLGCLSEA EELVVGSAAF GEERRLDVLQ AIHTARQQQK QEHSGSEEAQ KPNLEGSVSH KFLSLPMLVR QLWDSAVSH

General References

Matsumoto N., et al. (2003) Nat. Cell Biol. 5:454-460
Matsumoto N., et al. (2003) Am. J. Hum. Genet. 73:233-246

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.