

Recombinant Human ABCD4 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ABCD4-1698H Lot. No. (See product label)

SPECIFICATION

Product Overview

ABCD4 MS Standard C13 and N15-labeled recombinant protein (NP_005041) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

Species

Human

Source

HEK293

Description

The protein encoded by this gene is a member of the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intra-cellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the ALD subfamily, which is involved in peroxisomal import of fatty acids and/or fatty acyl-CoAs in the organelle. All known peroxisomal ABC transporters are half transporters which require a partner half transporter molecule to form a functional homodimeric or heterodimeric transporter. The function of this peroxisomal membrane protein is unknown. However, it is speculated that it may function as a heterodimer for another peroxisomal ABC transporter and, therefore, may modify the adrenoleukodystrophy phenotype. It may also play a role in the process of peroxisome biogenesis. Alternative splicing results in several protein-coding and non-protein-coding variants.

Molecular Mass

68.6 kDa

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AA Sequence

MAVAGPAPGAGARPRDLQFLQRFLQILKVLFPSSQNALMFLTLCLLLEQFVIY
 QVGLIPSQYYGVLGNKDLEGFKTLTFLAVMLIVLNSTLKSFDQFTCNLLYVSWRKDLT
 EHLHRLYFRGRAYTYLNLVLRDDIDNPDQRISQDVERFCRQLSSMASKLIISPFTLVYY
 TYQCFQSTGWLGPVSIFGYFILGTVVNKTLMGPVIMKLVHQEKLEGDFRFRKHMQIRV
 NAEPAAFYRAGHVEHMRTDRRLQRLQLTQRELMSELWLYIGINTFDYLGSIYSYVVI
 AIPIFSGVYGDLSPTLSTLVSKNAFVCIYLISCFTQLIDLSTLSDVAGYTHRIGQLRE
 TLLDMSLKSQDCEILGESKWGLDTPPGWPAEAPADTAFLLERVSISAPSSDKPLIKDL
 SLKISEGQSLITGNTGTGKTSLLRVLGGLWTSTRGSVQMLTDFGPHGVFLFPQKPF
 FTDGTLREQVIYPLKEVYPDSGSADDERILRFLELAGLSNLVARTEGLDQQVDWNW
 YDVLSPGEMQRLSFARLFYLPKYAVLDEATSALTEEVESELYRIGQQQLGMTFISVG
 HRQSLEKFHSLVLKLCGGGRWELMRIKVETRTRPLEQKLISEEDLAANDILDYKDDD
 DKV

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 ABCD4 ATP binding cassette subfamily D member 4 [Homo sapiens (human)]

Official Symbol ABCD4

Synonyms ABCD4; ATP binding cassette subfamily D member 4; P70R; P79R; ABC41; MAHCJ;

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PMP69; PXMP1L; EST352188; lysosomal cobalamin transporter ABCD4; 69 kDa peroxisomal ABC-transporter; ATP-binding cassette sub-family D member 4; ATP-binding cassette, sub-family D (ALD), member 4; PMP70-related protein; PXMP1-L; peroxisomal membrane protein 69

Gene ID [5826](#)

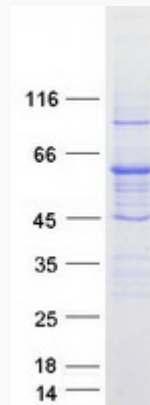
mRNA Refseq [NM_005050](#)

Protein Refseq [NP_005041](#)

MIM [603214](#)

UniProt ID [O14678](#)

SDS-PAGE



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