

Recombinant Mouse Abcd4 Protein, Myc/DDK-tagged

Cat. No. Abcd4-1461M Lot. No. (See product label)

SPECIFICATION

Product Overview Purified recombinant protein of mouse full-length ATP-binding cassette, sub-family D (ALD), member 4 (cDNA clone MGC:60642 IMAGE:30012556), complete cds, with C-terminal MYC/DDK tag, expressed in HEK293T cells.

Species Mouse

Source HEK293

Description The membrane-associated 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 the human protein 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.

Molecular Mass 58.6 kDa

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

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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 after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Abcd4 ATP-binding cassette, sub-family D (ALD), member 4 [Mus musculus (house mouse)]
Official Symbol	Abcd4
Synonyms	Abcd4; ATP-binding cassette, sub-family D (ALD), member 4; P6; Pxm; P69r; P70R; Pxmp1l; lysosomal cobalamin transporter ABCD4; ATP-binding cassette sub-family D member 4; PMP69; PMP70-related protein; PXMP1-L; peroxisomal membrane protein 69; peroxisomal membrane protein, 70 kDa-related
Gene ID	19300
mRNA Refseq	NM_008992
Protein Refseq	NP_033018
UniProt ID	O89016

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