

Recombinant Mouse Abcd1 Protein, MYC/DDK-tagged

Cat. No. Abcd1-569M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of full-length mouse ATP-binding cassette, sub-family D (ALD), member 1 (Abcd1), 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. This peroxisomal membrane protein is likely involved in the peroxisomal transport or catabolism of very long chain fatty acids. Defects in the human gene have been identified as the underlying cause of adrenoleukodystrophy, an X-chromosome recessively inherited demyelinating disorder of the nervous system.
Molecular Mass	82.3 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	Abcd1 ATP-binding cassette, sub-family D (ALD), member 1 [Mus musculus (house mouse)]
Official Symbol	Abcd1
Synonyms	Abcd1; ATP-binding cassette, sub-family D (ALD), member 1; Ald; ALDP; Aldgh; ATP-binding cassette sub-family D member 1; X-linked adrenoleukodystrophy (ALD) gene homolog; adrenoleukodystrophy protein; EC 7.6.2.4
Gene ID	11666
mRNA Refseq	NM_007435
Protein Refseq	NP_031461
UniProt ID	P48410

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