

Recombinant Human ABCD1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ABCD1-5658H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ABCD1 MS Standard C13 and N15-labeled recombinant protein (NP_000024) 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. This peroxisomal membrane protein is likely involved in the peroxisomal transport or catabolism of very long chain fatty acids. Defects in this gene have been identified as the underlying cause of adrenoleukodystrophy, an X-chromosome recessively inherited demyelinating disorder of the nervous system.
Molecular Mass	82.9 kDa
AA Sequence	MPVLSRPRPWGNTLKRTAVLLALAAAYGAHKVYPLVRQCLAPARGQLQAPAGEPTQE

 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

ASGVAAAKAGMNRVFLQRLLWLLRLLFPRVLCRETGLLALHSAALVSRTFLSVYVAR
 LDGRLARCIVRKDPRAFGWQLLQWLLIALPATFVNSAIRYLEGQLALSFRSRLVAHAY
 RLYFSQQTYYRVSNMDGRLRNPQSLTEDVVAFAASVAHLYSNLTKPLLDVAVTSY
 TLLRAARSRGAGTAWPSAIAGLVVFLTANVLRASFSPKFGEVVAEEARRKGELRYMHS
 RVVANSEEIAFYGGHEVELALLQRSYQDLASQINLILLERLWYVMLEQFLMKYVWSA
 SGLLMVAVPIITATGYSESDAEAVKKAALKKEEELVSETEAFTIARNLLTAAADAIE
 RIMSSYKEVTELAGYTARVHEMFQVFEDVQRCHFKRPRELEDAQAGSGTIGRSGVR
 VEGPLKIRGQVVDVEQGIICENIPIVTPSGEVVVASLNIRVEEGMHLLITGPNGCGKSS
 LFRILGGLWPTYGGVLYKPPPQRMFYIPQRPYMSVGSRLDQVIYPDSVEDMQRKGY
 SEQDLEAILDVVHLHHILQREGGWEAMCDWKDVLSGGEKQRIGMARMFYHRPKYA
 LLDECTSAVSIDVEGKIFQAADAGIALLSITHRPSLWKYHHTLLQFDGEGGWKFEKL
 DSAARLSLTEEKQRLEQQLAGIPKMQRRLQELCQILGEAVAPAHVPAPSPQGPGL
 QGASTTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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 ABCD1 ATP binding cassette subfamily D member 1 [Homo sapiens (human)]

Official Symbol ABCD1

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Synonyms	ABCD1; ATP-binding cassette, sub-family D (ALD), member 1; ALD; ATP-binding cassette sub-family D member 1; adrenoleukodystrophy; ALDP; AMN; adrenoleukodystrophy protein; ABC42;
Gene ID	215
mRNA Refseq	NM_000033
Protein Refseq	NP_000024
MIM	300371
UniProt ID	P33897
SDS-PAGE	