

## Recombinant Human ABCD1, His-tagged

Cat. No. ABCD1-3735H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	ATP-binding cassette sub-family D member 1 (ABCD1)
<b>Species</b>	Human
<b>Source</b>	E.Coli/Yeast
<b>ProteinLength</b>	745
<b>Description</b>	<p>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.</p>
<b>Form</b>	This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.
<b>Purity</b>	>90%

 Tel: 1-631-559-9269 1-516-512-3133

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<b>Notes</b>	Small volumes of ABCD1 recombinant protein may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container's cap. Certain products may require to ship with dry ice.
<b>Storage</b>	Store at -20 degree C. For extended storage, store at -20 or -80 degree C.
<b>Storage Buffer</b>	PBS pH 7.4, 50% glycerol
<b>Warning</b>	This product is for research use only. Not for use in diagnostic or therapeutic procedures.

## GENE INFORMATION

<b>Gene Name</b>	ABCD1 ATP-binding cassette, sub-family D (ALD), member 1 [ Homo sapiens ]
<b>Official Symbol</b>	ABCD1
<b>Synonyms</b>	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;
<b>Gene ID</b>	215
<b>mRNA Refseq</b>	NM_000033
<b>Protein Refseq</b>	NP_000024
<b>MIM</b>	300371
<b>UniProt ID</b>	P33897

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<b>Chromosome Location</b>	Xq28
<b>Pathway</b>	ABC transporters, organism-specific biosystem; ABC transporters, conserved biosystem; ABC-family proteins mediated transport, organism-specific biosystem; ABCA transporters in lipid homeostasis, organism-specific biosystem; Beta-oxidation of very long cha
<b>Function</b>	ATP binding; ATPase activity; ATPase activity, coupled to transmembrane movement of substances; identical protein binding; nucleotide binding; peroxisomal fatty-acyl-CoA transporter activity; protein binding; transporter activity;

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