

Recombinant Mouse Abcd1 Protein, His-tagged

Cat. No. Abcd1-12M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Abcd1 Protein (Pro447-Thr736) with N-His tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Pro447-Thr736
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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 35.9 kDa

 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

	Accurate Molecular Mass: 36 kDa
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1 mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

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; ATP-binding cassette sub-family D member 1; adrenoleukodystrophy protein; ATP-binding cassette, sub-family D, member 1; X-linked adrenoleukodystrophy (ALD) gene homolog; Ald; ALDP; Aldgh
Gene ID	11666

 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

mRNA Refseq	NM_007435
Protein Refseq	NP_031461
UniProt ID	P48410

 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