

Recombinant Human ABCA1 Protein, His-tagged

Cat. No. ABCA1-10H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human ABCA1 Protein (Arg43-Glu450) with N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Arg43-Glu450
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 intracellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the ABC1 subfamily. Members of the ABC1 subfamily comprise the only major ABC subfamily found exclusively in multicellular eukaryotes. With cholesterol as its substrate, this protein functions as a cholesterol efflux pump in the cellular lipid removal pathway. Mutations in both alleles of this gene cause Tangier disease and familial high-density lipoprotein (HDL) deficiency.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 50.1 kDa Accurate Molecular Mass: 46 kDa
Purity	> 90%

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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	ABCA1 ATP-binding cassette, sub-family A (ABC1), member 1 [Homo sapiens (human)]
Official Symbol	ABCA1
Synonyms	ABCA1; ATP-binding cassette, sub-family A (ABC1), member 1; ABC1, HDLDT1; ATP-binding cassette sub-family A member 1; Tangier disease; TGD; membrane-bound; ATP-binding cassette transporter 1; ATP-binding cassette transporter A1; cholesterol efflux regulatory protein; ABC1; CERP; ABC-1; HDLDT1
Gene ID	19
mRNA Refseq	NM_005502
Protein Refseq	NP_005493

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MIM	600046
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UniProt ID	O95477
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