Recombinant Human ABCA1 protein, His-tagged

Cat. No. ABCA1-5857H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ABCA1 aa. (Asn1385~Phe1663) fused with N-terminal His tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Asn1385~Phe1663
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 cholesteral efflux pump in the cellular lipid removal pathway. Mutations in this gene have been associated with Tangier's disease and familial high-density lipoprotein deficiency.
Form	Freeze-dried powder
Molecular Mass	36kDa as determined by SDS-PAGE reducing conditions
Endotoxin	<1.0EU per 1μg (determined by the LAL method)

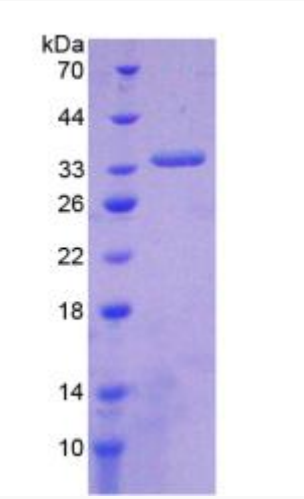
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Purity	>98%
Characteristic	The isoelectric point is 8.2.
Applications	SDS-PAGE; WB; ELISA; IP; CoIP; Purification; Amine Reactive Labeling.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C 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°C for one month. Aliquot and store at -80°C for 12 months.
Concentration	200μg/mL
Storage buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5%Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex

GENE INFORMATION

Gene Name	ABCA1 ATP binding cassette subfamily A member 1 [Homo sapiens (human)]
Official Symbol	ABCA1
Synonyms	TGD; ABC1; CERP; ABC-1; HDLDT1; ATP-binding cassette transporter A1; ATP-binding cassette, sub-family A (ABC1), member 1; cholesterol efflux regulatory protein; membrane-bound; ATP-binding cassette sub-family A member 1

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Gene ID	19
mRNA Refseq	NM_005502.3
Protein Refseq	NP_005493.2
UniProt ID	O95477
SDS-PAGE	

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