

Recombinant Human ABCG1, His-tagged

Cat. No. ABCG1-3697H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ATP Binding Cassette Transporter G1 (ABCG1)
Species	Human
Source	E.coli
ProteinLength	678
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 White subfamily. It is involved in macrophage cholesterol and phospholipids transport, and may regulate cellular lipid homeostasis in other cell types. Six alternative splice variants have been identified.
Form	Supplied as lyophilized form in PBS,pH7.4, containing 5% sucrose, 0.01% sarcosyl.
Molecular Mass	27.3kDa
Endotoxin	<1.0eu per 1ug (determined by the lal</1.0eu
Purity	>95%
Applications	SDS-PAGE, Western Blot (WB), ELISA (EIA), Immunoprecipitation (IP)

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Notes	Small volumes of ABCG1 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.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Stability Test: The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.
Warning	This product is for research use only. Not for use in diagnostic or therapeutic procedures.

GENE INFORMATION

Gene Name	ABCG1 ATP-binding cassette, sub-family G (WHITE), member 1 [Homo sapiens]
Official Symbol	ABCG1
Synonyms	ABCG1; ATP-binding cassette, sub-family G (WHITE), member 1; ATP-binding cassette sub-family G member 1; ABC8; ATP binding cassette transporter 8; ABC transporter 8; homolog of Drosophila white; ATP-binding cassette transporter 8; ATP-binding cassette transporter member 1 of subfamily G; white protein homolog (ATP-binding cassette transporter 8); WHITE1; MGC34313;
Gene ID	9619

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mRNA Refseq	NM_004915
Protein Refseq	NP_004906
MIM	603076
UniProt ID	P45844
Chromosome Location	21q22.3
Pathway	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; HDL-mediated lipid transport, o
Function	ADP binding; ATP binding; ATPase activity; cholesterol binding; cholesterol transporter activity; glycoprotein transporter activity; nucleotide binding; phospholipid binding; phospholipid transporter activity; protein dimerization activity; protein heterodimerization activity; protein homodimerization activity; sterol-transporting ATPase activity; toxin transporter activity;

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