

Recombinant Human ABCG8 Protein

Cat. No. ABCG8-069H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ABCG8 full-length ORF (ADR83246.1) recombinant protein without tag.
Species	Human
Source	Wheat Germ
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. The protein encoded by this gene functions to exclude non-cholesterol sterol entry at the intestinal level, promote excretion of cholesterol and sterols into bile, and to facilitate transport of sterols back into the intestinal lumen. It is expressed in a tissue-specific manner in the liver, intestine, and gallbladder. This gene is tandemly arrayed on chromosome 2, in a head-to-head orientation with family member ABCG5. Mutations in this gene may contribute to sterol accumulation and atherosclerosis, and have been observed in patients with sitosterolemia. [provided by RefSeq, Jul 2008]
Form	Liquid
Molecular Mass	74.1 kDa
AA Sequence	MAGKAAEERGLPKGATPQHTSGLQDRLFSSSDNSLYFTYSGQPNTLEVRDLNYQ VDLASQVPWFEEQLAQFKMPWTSPSCQNSCELGIQNLSFKVRSQGMLAIIGSSGCGR

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ASLLDVITGRGHGGKIKSGQIWINGQPSSPQLVRKCVAHVRQHNQLLPNLTVRETLA
 FIAQMRLPRTFSQAQRDKRVEDVIAELRLRQCADTRVGNMYVRGLSGGERRRRVSIG
 VQLLWNPGLILDEPTSGLDSTAHNLVKTL SRLAKGNRLVLISLHQPRSDIFRLFDLV
 LLMTSGTPIYLGA AQH MVQYFTAIGYPCPRYSNPADFYVDLTSIDRRSREQELATRE
 KAQSLAALFLEKVRDLDDFLWKAETKDLEDTCVESSVTPLDTNCLPSPTKMPGAV
 QQFTTLIRRQISNDFRDLPTLLIHGA EACLMSMTIGFLYFGHSGSIQLSFMDTAALLFMI
 GALIPFNVILDVISKCYSERAMLYYELEDGLYTTGPYFFAKILGELPEHCAYIIIIYGMPT
 YWLANLRPGLQPFLHFLLVLVVFCRIMALAAAALLPTFHMASFFSNALYNSFYLA
 GGFMINLSSLWTVPAWISKVSFLRWCFEGLMKIQFSRRTYKMPLGNLTIAVSGDKILS
 AMELDSYPLYAIYLIVIGLSGGFMVLYYVSLRFIKQKPSQDW

Applications

Antibody Production
 Functional Study
 Compound Screening

Usage

Heating may cause protein aggregation. Please do not heat this product before electrophoresis.

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

25 mM Tris-HCl of pH8.0 containing 2% glycerol.

GENE INFORMATION
Gene Name

ABCG8 ATP-binding cassette, sub-family G (WHITE), member 8 [Homo sapiens]

Official Symbol

ABCG8

Synonyms

ABCG8; ATP-binding cassette, sub-family G (WHITE), member 8; ATP binding

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cassette, sub family G (WHITE), member 8 (sterolin 2); ATP-binding cassette sub-family G member 8; gallbladder disease 4; GBD4; sterolin 2; sterolin-2; ATP-binding cassette, subfamily G, member 8; STSL; MGC142217;

Gene ID	64241
mRNA Refseq	NM_022437
Protein Refseq	NP_071882
MIM	605460
UniProt ID	Q9H221

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