

Recombinant Full Length Human ABCG8 Protein

Cat. No. ABCG8-822HF Lot. No. (See product label)

SPECIFICATION

Product Overview Human ABCG8 full-length ORF (ADR83246.1) recombinant protein without tag.

Species Human

Source In Vitro Cell Free System

ProteinLength 673 amino acids

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

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AA Sequence

MAGKAAEERG LPKGATPQHT SGLQDRLFSS ESDNSLYFTY SGQPNTLEVR
 DLNYQVDLAS QVPWFEQLAQ FKMPWTSPSC QNSCELGIQN LSFKVRSGQM
 LAIIGSSGCG RASLLDVITG RGHGGKIKSG QIWINGQPSS PQLVRKCVAH
 VRQHNQLLPN LTVRETLAFI AQMRLPRTFS QAQRDKRVED VIAELRLRQC
 ADTRVGNMYV RGLSGGERRR VSIGVQLLWN PGILILDEPT SGLDSFTAHN
 LVKTL SRLAK GNRLVLISLH QPRSDIFRLF DLVLLMTSGT PIYLGAAQHM
 VQYFTAIGYP CPRYSNPADF YVDLTSIDRR SREQELATRE KAQSLAALFL
 EKVRDLDDFL WKAETKDLDE DTCVESSVTP LDTNCLPSPT KMPGAVQQFT
 TLIRRQISND FRDLPTLLIH GAEACLMSMT IGFLYFGHGS IQLSFMDTAA
 LLFMIGALIP FNVILDVISK CYSERAMLYY ELEDGLYTTG PYFFAKILGE
 LPEHCAYIII YGMPTYWLAN LRPGLQPFL HFLLVWL VVF CCRIMALAAA
 ALLPTFHMAS FFSNALYNSF YLAGGFMINL SSLWTVPAWI SKVSFLRWCF
 EGLMKIQFSR RTYKMPLGNL TIAVSGDKIL SAMELDSYPL YAIYLIVIGL
 SGGFMVLYYV SLRFIKQKPS QDW

Applications

Antibody Production
 Functional Study
 Compound Screening

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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