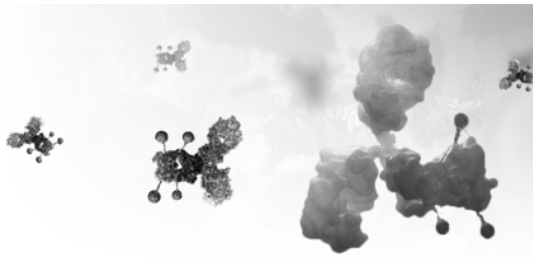

Human ABCG5 peptide (DAG-P0059)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen 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 as a half-transporter to limit intestinal absorption and promote biliary excretion of sterols. It is expressed in a tissue-specific manner in the liver, colon, and intestine. This gene is tandemly arrayed on chromosome 2, in a head-to-head orientation with family member ABCG8. Mutations in this gene may contribute to sterol accumulation and atheroschlerosis, and have been observed in patients with sitosterolemia. [provided by RefSeq, Jul 2008]
Specificity	Strongly expressed in the liver, lower levels in the small intestine and colon.
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the ABC transporter superfamily. ABCG family. Eye pigment precursor importer (TC 3.A.1.204) subfamily.Contains 1 ABC transmembrane type-2 domain.Contains 1 ABC transporter domain.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	ABCG5 ATP-binding cassette, sub-family G (WHITE), member 5 [Homo sapiens (human)]

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Official Symbol	ABCG5
Synonyms	ABCG5; ATP-binding cassette, sub-family G (WHITE), member 5; STSL; ATP-binding cassette sub-family G member 5; sterolin 1; sterolin-1; ATP-binding cassette, subfamily G, member 5;
Entrez Gene ID	64240
mRNA Refseq	NM_022436.2
Protein Refseq	NP_071881.1
UniProt ID	Q9H222
Chromosome Location	2p21
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; Bile secretion, organism-specific biosystem; Bile secretion, conserved biosystem; Fat digestion and absorption, organism-specific biosystem; Fat digestion and absorption, conserved biosystem; Lipid digestion, mobilization, and transport, organism-specific biosystem; Metabolis
Function	contributes_to ATP binding; contributes_to ATPase activity; contributes_to cholesterol transporter activity; protein binding; protein heterodimerization activity;

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