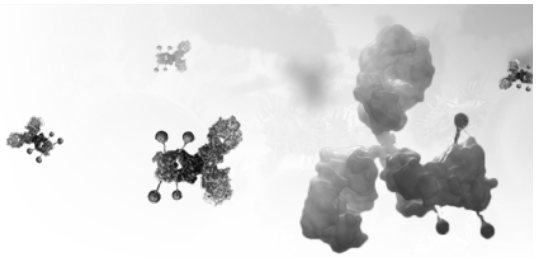

Human ABCB7 peptide (DAG-P0054)

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

PRODUCT INFORMATION

Antigen 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 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 MDR/TAP subfamily. Members of the MDR/TAP subfamily are involved in multidrug resistance as well as antigen presentation. This gene encodes a half-transporter involved in the transport of heme from the mitochondria to the cytosol. With iron/sulfur cluster precursors as its substrates, this protein may play a role in metal homeostasis. Mutations in this gene have been associated with mitochondrial iron accumulation and isodicentric (X)(q13) and sideroblastic anemia. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Nov 2012]
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the ABC transporter superfamily. ABCB family. Heavy Metal importer (TC 3.A.1.210) subfamily.Contains 1 ABC transmembrane type-1 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	ABCB7 ATP-binding cassette, sub-family B (MDR/TAP), member 7 [Homo sapiens (human)]
Official Symbol	ABCB7

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Synonyms	ABCB7; ATP-binding cassette, sub-family B (MDR/TAP), member 7; ABC7; ASAT; Atm1p; EST140535; ATP-binding cassette sub-family B member 7, mitochondrial; ABC transporter 7 protein; ATP-binding cassette transporter 7;
Entrez Gene ID	22
mRNA Refseq	NM_001271696.1
Protein Refseq	NP_001258625.1
UniProt ID	O75027
Chromosome Location	Xq13.3
Pathway	ABC transporters, organism-specific biosystem; ABC transporters, conserved biosystem; ABC-family proteins mediated transport, organism-specific biosystem; Cytosolic Iron-sulfur Cluster Assembly, organism-specific biosystem; Metabolism, organism-specific biosystem; Mitochondrial ABC transporters, organism-specific biosystem; Transmembrane transport of small molecules, organism-specific biosystem;
Function	ATP binding; ATPase activity, coupled to transmembrane movement of substances; heme transporter activity;

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