

ABCB11 Blocking Peptide (C-term)

Synthetic peptide

Catalog # BP21646b

Specification**ABCB11 Blocking Peptide (C-term) - Product Information**Primary Accession [O95342](#)**ABCB11 Blocking Peptide (C-term) - Additional Information**

Gene ID 8647

Other Names

Bile salt export pump, ATP-binding cassette sub-family B member 11, ABCB11, BSEP

Target/Specificity

The synthetic peptide sequence is selected from aa 1083-1097 of HUMAN ABCB11

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ABCB11 Blocking Peptide (C-term) - Protein InformationName ABCB11 ([HGNC:42](#))

Synonyms BSEP {ECO:0000303|Ref.2}

Function

Catalyzes the transport of the major hydrophobic bile salts, such as taurine and glycine-conjugated cholic acid across the canalicular membrane of hepatocytes in an

ABCB11 Blocking Peptide (C-term) - Background

Involved in the ATP-dependent secretion of bile salts into the canaliculus of hepatocytes.

ABCB11 Blocking Peptide (C-term) - References

Strautnieks S.S.,et al.Nat. Genet. 20:233-238(1998).
Mol O.,et al.Submitted (MAR-1999) to the EMBL/GenBank/DDBJ databases.
Hillier L.W.,et al.Nature 434:724-731(2005).
Mochizuki K.,et al.Am. J. Physiol. 292:G818-G828(2007).
Jansen P.L.M.,et al.Gastroenterology 117:1370-1379(1999).

ATP-dependent manner, therefore participates to hepatic bile acids homeostasis and consequently to lipid homeostasis through regulation of biliary lipid secretion in a bile salts dependent manner (PubMed:16332456, PubMed:22262466, PubMed:15791618, PubMed:18985798, PubMed:19228692, PubMed:20398791, PubMed:24711118, PubMed:29507376, PubMed:20010382, PubMed:32203132). Transports taurine-conjugated bile salts more rapidly than glycine-conjugated bile salts (PubMed:16332456). Also transports non-bile acid compounds, such as pravastatin and fexofenadine in an ATP-dependent manner and may be involved in their biliary excretion (PubMed:15901796, PubMed:18245269).

Cellular Location

Apical cell membrane; Multi-pass membrane protein. Recycling endosome membrane

{ECO:0000250|UniProtKB:O70127};

Multi-pass membrane protein

{ECO:0000250|UniProtKB:O70127}.
Endosome
{ECO:0000250|UniProtKB:O70127}. Cell
membrane; Multi-pass membrane protein.
Note=Internalized at the canalicular
membrane through interaction with the
adapter protein complex 2 (AP-2)
(PubMed:22262466). At steady state,
localizes in the canalicular membrane but is
also present in recycling endosomes.
ABCB11 constantly and rapidly exchanges
between the two sites through
tubulo-vesicles carriers that move along
microtubules. Microtubule-dependent
trafficking of ABCB11 is enhanced by
taurocholate and cAMP and regulated by
STK11 through a PKA-mediated pathway.
Trafficking of newly synthesized ABCB11
through endosomal compartment to the bile
canalicular membrane is accelerated by
cAMP but not by taurocholate (By
similarity). Cell membrane expression is
up-regulated by short- and medium-chain
fatty acids (PubMed:20398791)
{ECO:0000250|UniProtKB:O70127,
ECO:0000269|PubMed:20398791,
ECO:0000269|PubMed:22262466}

Tissue Location

Expressed predominantly, if not exclusively
in the liver, where it was further localized to
the canalicular microvilli and to
subcanalicular vesicles of the hepatocytes
by in situ

**ABCB11 Blocking Peptide (C-term) -
Protocols**

Provided below are standard protocols that you
may find useful for product applications.

- [Blocking Peptides](#)