

Recombinant Full Length Human ABCC5 Protein, GST-tagged

Cat. No. ABCC5-770HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ABCC5 full-length ORF (NP_001018881.1, 1 a.a. - 208 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	208 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 (ABC 1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the MRP subfamily which is involved in multi-drug resistance. This protein functions in the cellular export of its substrate, cyclic nucleotides. This export contributes to the degradation of phosphodiesterases and possibly an elimination pathway for cyclic nucleotides. Studies show that this protein provides resistance to thiopurine anticancer drugs, 6-mercaptopurine and thioguanine, and the anti-HIV drug 9-(2-phosphonylmethoxyethyl)adenine. This protein may be involved in resistance to thiopurines in acute lymphoblastic leukemia and antiretroviral nucleoside analogs in HIV-infected patients. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2016]
Molecular Mass	50.1 kDa
AA Sequence	MKDIDIGKEY IIPSPGYRSV RERTSTSGTH RDREDSKFRR TRPLECQDAL

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ETAARAEGLS LDASMHSQLR ILDEEHPKGK YHHGLSALKP IRTTSKHQHP
VDNAGLFSCM TFSWLSSLAR VAHKKGELSM EDVWSLSKHE SSDVNCRRLE
RLWQEELNEV GPDAASLRRV VWIFCRTL I LSIVCLMITQ LAGFSGPNFQ
DGCILRSE

Applications

Enzyme-linked Immunoabsorbent Assay
Western Blot (Recombinant protein)
Antibody Production
Protein Array

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

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name [ABCC5 ATP-binding cassette, sub-family C \(CFTR/MRP\), member 5 \[Homo sapiens \]](#)

Official Symbol [ABCC5](#)

Synonyms ABCC5; ATP-binding cassette, sub-family C (CFTR/MRP), member 5; multidrug resistance-associated protein 5; EST277145; MOAT C; MRP5; SMRP; ATP-binding cassette sub-family C member 5; multi-specific organic anion transporter C; canalicular multispecific organic anion transporter C; ABC33; MOATC; MOAT-C; pABC11; DKFZp686C1782

Gene ID [10057](#)

mRNA Refseq [NM_001023587](#)

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Protein Refseq	NP_001018881
MIM	605251
UniProt ID	O15440

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