

Datasheet for ABIN7554624
ABCC5 Protein (AA 1-1437) (His tag)



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Overview

Quantity:	1 mg
Target:	ABCC5
Protein Characteristics:	AA 1-1437
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ABCC5 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant ABCC5 Protein expressed in mammalian cells.
Sequence:	MKDIDIGKEY IIPSPGYRSV RERTSTSGTH RDREDSKFRR TRPLECQDAL ETAARAEGLS LDASMHSQLR ILDEEHPK GK YHHGLSALKP IRTTSKHQHP VDNAGLFSCM TFSWLSSLAR VAHKKGELSM EDVWSLSKHE SSDVNCRRLE RLWQEELNEV GPDAASLRRV VWIFCRTRLI LSIVCLMITQ LAGFSGPAFM VKHLLEYTQA TESNLQYSLL LVLGLLLTEI VRSWSLALTW ALNYRTGVRL RGAILTMAFK KILKLNKIKE KSLGELINIC SNDGQRMFEA AAVGSLLAGG PVVAILGMIY NVIILGPTGF LGSVAVFILFY PAMMFASRLT AYFRRKCVAA TDERVQKMNE VLTYIKFIKM YAWVKAFS QS VQKIREEERR ILEKAGYFQS ITVGVAPIVV VIASVVTFSV HMTLGFDLTA AQAFTVVTVF NSMTFALKVT PFSVKSLSEA SVAVDRFKSL FLMEEVHMIK NKPASPHIKI EMKNATLAWD SSHSIQNSP KLTPKMKKDK RASRGKKEKV RQLQRTEHQA VLAEQKGHLL LDSDERPSPE EEEGKHIHLG HLRLQRTLHS IDLEIQEGKL VGICGSVGS KTSLISAILG QMTLLEGSIA ISGTFAYVAQ QAWILNATLR DNILFGKEYD EERYNSVLNS CCLRPDLAIL PSSDLTEIGE RGANLSGGQR QRISLARALY SDRSIYILDD PLSALDAHVG

NHIFNSAIRK HLKSKTVLFV THQLQYLVDK DEVIFMKEGC ITERGTHEEL MNLNGDYATI
FNNLLLGETP PVEINSKKEK SGSQKKSQDK GPKTGSVKKE KAVKPEEGQL VQLEEKGGQS
VPWSVYGVYI QAAGGPLAFL VIMALFMLNV GSTAFSTWWL SYWIKQGSGN TTVTRGNETS
VSDSMKDNPH MQYYASIYAL SMAVMLILKA IRGVVFKGT LRASSRLHDE LFRRILRSPM
KFFDTTPTGR ILNRFKDM D EVDVRLPFQA EMFIQNVILV FFCVGMIAGV FPWFLVAVGP
LVILFVSLHI VSRVLIRELK RLDNITQSPF LSHITSSIQG LATIHAYNKG QEFLHRYQEL
LDDNQAPFFL FTCAMRWLAV RLDLISIALI TTTGLMIVLM HGQIPPAYAG LAISYAVQLT
GLFQFTVRLA SETEARFTSV ERINHAIKTL SLEAPARIKN KAPSPDWPQE GEVTFENAEM
RYRENLPVLV KKVSFTIKPK EKIGIVGRTG SGKSSLMAL FRLVELSGGC IKIDGVRISD
IGLADLRSLK SIIPQEPVLF SGTVRSNLDP FNQYTEDQIW DALERTHMKE CIAQLPLKLE
SEVMENGDNF SVGERQLLCI ARALLRHCKI LILDEATAAM DTETDLIQE TIREAFADCT
MLTIAHRLHT VLGSDRIMVL AQQQVVEFDT PSVLLSNDSS RFYAMFAAAE NKVAVKG **Sequence
without tag. The proposed Purification-Tag is based on experiences with the expression
system, a different complexity of the protein could make another tag necessary. In case you
have a special request, please contact us.**

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Characteristics: Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

Target Details

Target: ABCC5

Alternative Name: ABCC5 ([ABCC5 Products](#))

Background: ATP-binding cassette sub-family C member 5 (EC 7.6.2.-) (EC 7.6.2.2) (Multi-specific organic anion transporter C) (MOAT-C) (Multidrug resistance-associated protein 5) (SMRP) (pABC11),FUNCTION: ATP-dependent transporter of the ATP-binding cassette (ABC) family that actively extrudes physiological compounds, and xenobiotics from cells. Mediates ATP-dependent transport of endogenous metabolites such as cAMP and cGMP, folic acid and N-lactoyl-amino acids (in vitro) (PubMed:10893247, PubMed:15899835, PubMed:25964343, PubMed:17229149, PubMed:12695538, PubMed:12637526). Acts also as a general glutamate conjugate and analog transporter that can limit the brain levels of endogenous metabolites, drugs, and toxins (PubMed:26515061). Confers resistance to the antiviral agent PMEA (PubMed:12695538). Able to transport several anticancer drugs including methotrexate, and nucleotide analogs in vitro, however it does with low affinity, thus the exact role of ABCC5 in mediating resistance still needs to be elucidated (PubMed:10840050, PubMed:15899835, PubMed:12435799, PubMed:12695538). Acts as a heme transporter required for the translocation of cytosolic heme to the secretory pathway (PubMed:24836561). May play a role in energy metabolism by regulating the glucagon-like peptide 1 (GLP-1) secretion from enteroendocrine cells (By similarity). {ECO:0000250|UniProtKB:Q9R1X5, ECO:0000269|PubMed:10840050, ECO:0000269|PubMed:10893247, ECO:0000269|PubMed:12435799, ECO:0000269|PubMed:12637526, ECO:0000269|PubMed:12695538, ECO:0000269|PubMed:15899835, ECO:0000269|PubMed:17229149, ECO:0000269|PubMed:24836561, ECO:0000269|PubMed:25964343, ECO:0000269|PubMed:26515061}.

Molecular Weight: 160.7 kDa

UniProt: [O15440](#)

Pathways: [Glycosaminoglycan Metabolic Process](#)

Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months