Datasheet for ABIN7565195

ABCC5 Protein (AA 1-1436) (His tag)

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Overview

Quantity:	1 mg
Target:	ABCC5
Protein Characteristics:	AA 1-1436
Origin:	Mouse
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:	MKDIDMGKEY IIPSPGYRSD RDRSAVPGQH RDPEEPRFRR TRSLECQDAL ETAARVEGLS LDISVHSHLQ ILDEEHSKGK YHHGLSVLKP FRTTTKHQHP VDNAGLFSYM TFSWLSPLAR VVHKKGELLM EDVWPLSKYE SSDVNSRRLE RLWQEELNEV GPDAASLRRV VWIFCRTRLI LSIVCLMITQ LAGFSGPAFV VKHLLEYTQA TESNLQYSLL LVLGLLLTEV VRSWSLALTW ALNYRTGVRL RGAILTMAFK KILKLKNIKE KSLGELINIC SNDGQRMFEA AAVGSLLAGG PVVAILGMIY NVIILGPTGF LGSAVFILFY PAMMFVSRLT AYFRRKCVAA TDDRVQKMNE VLTYIKFIKM YAWVKAFSQC VQKIREEERR ILEKAGYFQS ITVGVAPIVV VIASVVTFSV HMTLGFHLTA AQAFTVVTVF NSMTFALKVT PFSVKSLSEA SVAVDRFKSL FLMEEVHMIK NKPASPHIKI EMKNATLAWD SSHSSIQNSP KLTPKMKKDK RATRGKKEKS RQLQHTEHQA VLAEQKGHLL LDSDERPSPE EEEGKQIHTG SLRLQRTLYN IDLEIEEGKL VGICGSVGSG KTSLVSAILG QMTLLEGSIA VSGTFAYVAQ QAWILNATLR DNILFGKEFD EERYNSVLNS CCLRPDLAIL PNSDLTEIGE RGANLSGGQR QRISLARALY SDRSIYILDD PLSALDAHVG

	NHIFNSAIRK RLKSKTVLFV THQLQYLVDC DEVIFMKEGC ITERGTHEEL MNLNGDYATI FNNLLLGETP PVEINSKKEA TGSQKSQDKG PKPGSVKKEK AVKSEEGQLV QVEEKGQGSV PWSVYWVYIQ AAGGPLAFLV IMVLFMLNVG STAFSTWWLS YWIKQGSGNS TVYQGNRSFV SDSMKDNPFM QYYASIYALS MAVMLILKAI RGVVFVKGTL RASSRLHDEL FRRILRSPMK FFDTTPTGRI LNRFSKDMDE VDVRLPFQAE MFIQNVILVF FCVGMIAGVF PWFLVAVGPL LILFSLLHIV SRVLIRELKR LDNITQSPFL SHITSSIQGL ATIHAYNKRQ EFLHRYQELL DDNQAPFFLF TCAMRWLAVR LDLISIALIT TTGLMIVLMH GQIPSAYAGL AISYAVQLTG LFQFTVRLAS ETEARFTSVE RINHYIKTLS LEAPARIKNK APPHDWPQEG EVTFENAEMR YRENLPLVLK KVSFTIKPKE KIGIVGRTGS GKSSLGMALF RLVELSGGCI KIDGIRISDI GLADLRSKLA IIPQEPVLFS GTVRSNLDPF NQYTEDQIWD ALERTHMKEC IAQLPLKLES EVMENGDNFS VGERQLLCIA RALLRHCKIL ILDEATAAMD TETDLLIQET IREAFADCTM LTIAHRLHTV LGSDRIMVLA QGQVVEFDTP SVLLSNDSSR FYAMFAAAEN KVAVKG **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),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 like cyclic nucleotides, such as cAMP and cGMP, folic acid and N-lactoyl-amino acids (in vitro) (By similarity) (PubMed:17229149). 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 (By similarity). Able to transport several anticancer drugs including methotrexate, and nucleotide analogs in vitro, however it does with low affinity (By similarity). 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 (PubMed:31338999). {ECO:0000250|UniProtKB:O15440, ECO:0000269|PubMed:17229149, ECO:0000269|PubMed:24836561, ECO:0000269|PubMed:26515061, ECO:0000269|PubMed:31338999}.
Molecular Weight:	161.1 kDa
UniProt:	Q9R1X5
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

Handling

Storage Comment:	Store at -80°C.
Expiry Date:	12 months