

Datasheet for ABIN7554556
ABCB4 Protein (AA 1-1286) (His tag)



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Overview

Quantity:	1 mg
Target:	ABCB4
Protein Characteristics:	AA 1-1286
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ABCB4 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant ABCB4 Protein expressed in mammalian cells.
Sequence:	MDLEAAKNGT AWRPTSAEGD FELGISSKQK RKKTKTVKMI GVLTLFRYSD WQDKLFMSLG TIMAIAHGSG LPLMMIVFGE MTDKFDVDTAG NFSFPVNFSL SLLNPGKILE EEMTRYAYYY SGLGAGVLVA AYIQVSFWTL AAGRQIRKIR QKFFHAILRQ EIGWFDINDT TELNTRLTDD ISKISEGIGD KVGMMFFQAVA TFFAGFIVGF IRGWKLT LVI MAISPILGLS AAVWAKILSA FSDKELAAYA KAGAVAEAL GAIRTVIAFG GQNKELERYQ KHLENAKEIG IKKAISANIS MGIAFLLIYA SYALAFWYGS TLVISKEYTI GNAMTVFFSI LIGAFSVGQA APCIDAFANA RGAAYVIFDI IDNNPKIDSF SERGHKPDSI KGNLEFNDVH FSYPSTRANVK ILKGLNLKVQ SGQTVALVGS SGC GKSTTVQ LIQRLYDPDE GTINIDGQDI RNFNVNYLRE IIGVVSQEPV LFSTTIAENI CYGRGNVTMD EIKKAVKEAN AYEFIMKLPQ KFDTLVGERG AQLSGGQKQR IAIARALVRN PKILLLDEAT SALDTESEAE VQAALDKARE GRTTIVIAHR LSTVRNADVI AGFEDGVIVE QGSHSELMKK EGVYFKLVNM QTSGSQIQSE EFELNDEKAA TRMAPNGWKS RLFRHSTQKN LKNSQMCQKS LDVETDGLEA NVPPVSFLKV LKLNKTEWPY FVGVTVCAIA

Product Details

NGGLQPAFSV IFSEIIAIFG PGDDAVKQQK CNIFSLIFLF LGIISFFTFE LQGFTFGKAG EILTRRLRSM
AFKAMLRQDM SWFDDHKNST GALSTRLATD AAQVQGATGT RLALIAQNTA NLGTGIIISF
IYGWQLTLLL LAVVPIIAVS GIVEMKLLAG NAKRDKKELE AAGKATEAI ENIRTVVSLT
QERKFESMYV EKLYGYPYRNS VQKAHIYGIT FSISQAFMYF SYAGCFRFGA YLIVNGHMRF
RDVILVFSAI VFGAVALGHA SSFAPDYAKA KLSAAHLFML FERQPLIDSY SEEGLKPKDF
EGNITFNEVV FNYPTRANVP VLQGLSLEVK KGQTLALVGS SGCGKSTVVQ LLERFYDPLA
GTVFVDFGFQ LLDGQEAKKL NVQWLRAQLG IVSQEPILFD CSIAENIAYG DNSRVVSQDE
IVSAAKAANI HPFIETLPHK YETRVGDKGT QLSSGGQKQRI AIARALIRQP QILLLDEATS
ALDTESEKVV QEALDKAREG RTCIVIAHRL STIQNADLIV VFQNGRVKEH GTHQQLLAQK
GIYFSMVSQ AGTQNL **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: ABCB4

Target Details

Alternative Name: [ABCB4 \(ABCB4 Products\)](#)

Background: Phosphatidylcholine translocator ABCB4 (EC 7.6.2.1) (ATP-binding cassette sub-family B member 4) (Multidrug resistance protein 3) (P-glycoprotein 3),FUNCTION: [Isoform 1]: Energy-dependent phospholipid efflux translocator that acts as a positive regulator of biliary lipid secretion. Functions as a floppase that translocates specifically phosphatidylcholine (PC) from the inner to the outer leaflet of the canalicular membrane bilayer into the canaliculi of hepatocytes. Translocation of PC makes the biliary phospholipids available for extraction into the canaliculi lumen by bile salt mixed micelles and therefore protects the biliary tree from the detergent activity of bile salts (PubMed:7957936, PubMed:8898203, PubMed:9366571, PubMed:17523162, PubMed:23468132, PubMed:24806754, PubMed:24723470, PubMed:24594635, PubMed:21820390, PubMed:31873305). Plays a role in the recruitment of phosphatidylcholine (PC), phosphatidylethanolamine (PE) and sphingomyelin (SM) molecules to nonraft membranes and to further enrichment of SM and cholesterol in raft membranes in hepatocytes (PubMed:23468132). Required for proper phospholipid bile formation (By similarity). Indirectly involved in cholesterol efflux activity from hepatocytes into the canalicular lumen in the presence of bile salts in an ATP-dependent manner (PubMed:24045840). Promotes biliary phospholipid secretion as canaliculi-containing vesicles from the canalicular plasma membrane (PubMed:9366571, PubMed:28012258). In cooperation with ATP8B1, functions to protect hepatocytes from the deleterious detergent activity of bile salts (PubMed:21820390). Does not confer multidrug resistance (By similarity). {ECO:0000250|UniProtKB:P21440, ECO:0000269|PubMed:17523162, ECO:0000269|PubMed:21820390, ECO:0000269|PubMed:23468132, ECO:0000269|PubMed:24045840, ECO:0000269|PubMed:24594635, ECO:0000269|PubMed:24723470, ECO:0000269|PubMed:24806754, ECO:0000269|PubMed:28012258, ECO:0000269|PubMed:31873305, ECO:0000269|PubMed:7957936, ECO:0000269|PubMed:8898203, ECO:0000269|PubMed:9366571}.

Molecular Weight: 141.5 kDa

UniProt: [P21439](#)

Pathways: [Regulation of Lipid Metabolism by PPARalpha](#)

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.

Application Details

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