

Datasheet for ABIN7551761  
**ABCB5 Protein (AA 1-1257) (His tag)**



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## Overview

Quantity:	1 mg
Target:	ABCB5
Protein Characteristics:	AA 1-1257
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ABCB5 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Purpose:	Custom-made recombinat ABCB5 Protein expressed in mammalian cells.
Sequence:	MENSERAEEM QENYQRNGTA EEQPKLRKEA VGSIEIFRFA DGLDITLMIL GILASLVNGA CLPLMPLVLG EMSDNLISGC LVQTNTTNYQ NCTQSQEKLN EDMTLLTLYY VGIGVAALIF GYIQISLWII TAARQTKRIR KQFFHSLVAQ DIGWFDSCDI GELNTRMTDD IDKISDGIGD KIALLFQNMS TFSIGLAVGL VKGWKLTTLVT LSTSPLIMAS AAACSRMVIS LSKELSAYS KAGAVAEVL SSIRTVIAFR AQEKELQRYT QNLKDAKDFG IKRTIASKVS LGAVYFFMNG TYGLAFWYGT SLILNGEPGY TIGTVLAVFF SVIHSSYCIG AAVPHFETFA IARGAAFHIF QVIDKKPSID NFSTAGYKPE SIEGTVEFKN VSFNYPSRPS IKILKGLNLR IKSGETVALV GLNGSGKSTV VQLLQRLYDP DDGFIMVDEN DIRALNVRHY RDHIGVVSQE PVLFGTTISN NIKYGRDDVT DEEMERAARE ANAYDFIMEF PNKFNTLVGE KGAQMSGGQK QRIAIARALV RNPKILILDE ATSALDSESK SAVQAALEKA SKGRTTIVVA HRLSTIRSAD LIVTLKDGML AEKGHAELM AKRGLYSLV MSQDIKKADE QMESMTYSTE RKTNSLPLHS VKSIKSDFID

KAEESTQSKE ISLPEVSLLK ILKLNKPEWP FVVLGTLASV LNGTVHPVFS IIFAKIITMF  
GNNDKTTLKH DAEIYSMIFV ILGVICFVSY FMQGLFYGRA GEILTMRLRH LAFKAMLYQD  
IAWFDEKENS TGGLTTILAI DIAQIQGATG SRIGVLTQNA TNMGLSVIIS FIYGWEMTFL  
ILSIAPVLAV TGMETAAMT GFANKDKQEL KHAGKATEA LENIRTIVSL TREKAFAQMY  
EEMLTQHRN TSKKAQIGS CYAFSHAFIY FAYAAGFRFG AYLIQAGRMT PEGMFIVFTA  
IAYGAMAIGE TLVLAPEYSK AKSGAAHLFA LLEKKNIDS RSQEGKKPDT CEGNLEFREV  
SFFYPCRPDV FILRGLSLSI ERGKTAVFVG SSGCGKSTSV QLLQRLYDPV QGQVLFQDGV  
AKELNVQWLR SQIAIVPQEP VLFNCSIAEN IAYGDNSRVV PLDEIKEAAN AANIHSFIEG  
LPEKYNTQVG LKGAQLSGGQ KQLLAIARAL LQKPKILLLD EATSALDNDS EKVVQHALDK  
ARTGRTCLVW THRLSAIQNA DLIVVLHNGK IKEQGTHQEL LRNRDIYFKL VNAQSVQ **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.**

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### 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.

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### Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

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### Grade:

custom-made

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## Target Details

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### Target:

ABCB5

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### Alternative Name:

ABCB5 ([ABCB5 Products](#))

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## Target Details

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Background: ATP-binding cassette sub-family B member 5 (ABCB5 P-gp) (P-glycoprotein ABCB5) (EC 7.6.2.2),FUNCTION: Energy-dependent efflux transporter responsible for decreased drug accumulation in multidrug-resistant cells (PubMed:12960149, PubMed:22306008, PubMed:15899824, PubMed:15205344). Specifically present in limbal stem cells, where it plays a key role in corneal development and repair (By similarity). {ECO:0000250|UniProtKB:B5X0E4, ECO:0000269|PubMed:12960149, ECO:0000269|PubMed:15205344, ECO:0000269|PubMed:15899824, ECO:0000269|PubMed:22306008}.

Molecular Weight: 138.6 kDa

UniProt: [Q2M3G0](#)

## Application Details

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Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

## Handling

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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