

Datasheet for ABIN7551873
ABCG5 Protein (AA 1-651) (His tag)



[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	ABCG5
Protein Characteristics:	AA 1-651
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ABCG5 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat ABCG5 Protein expressed in mammalian cells.
Sequence:	<p>MGDLSSLTPG GSMGLQVNRG SQSSLEGAPA TAPEPHSLGI LHASYSVSHR VRPWWDITSC RQQWTRQILK DVSLYVESGQ IMCILGSSGS GKTTLLDAMS GRLGRAGTFL GEVYVNGRAL RREQFQDCFS YVLQSDTLLS SLTVRETLHY TALLAIRRGN PGSFQKKVEA VMAELSLSHV ADRLIGNYSL GGISTGERRR VSIAAQLLQD PKVMLFDEPT TGLDCMTANQ IVLLVELAR RNRIVLTIH QPRSELFQLF DKIAILSFGE LIFCGTPAEM LDFFNDCGYP CPEHSNPFDF YMDLTSVDTQ SKEREIETSK RVQMIESAYK KSAICHKTLK NIERMKHLKT LPMVPFKTKD SPGVFSKLGV LLRRVTRNLV RNKLAVITRL LQNLIMGLFL LFFVLRVRSN VLKGAIQDRV GLLYQFVGAT PYTGMLNAVN LFPVLRVAVSD QESQDGLYQK WQMMLAYALH VLPFSWVATM IFSSVCYWTL GLHPEVARFG YFSAALLAPH LIGEFLLVVL LGIVQNPVIV NSVALLSIA GVLVGSGLR NIQEMPIPFK IISYFTFQKY CSEILVNEF YGLNFTCGSS NVSVTTNPMC AFTQGIQFIE KTCPGATSRF TMNFLILYSF IPALVILGIV VFKIRDHLIS R Sequence without tag.</p>

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.

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, Western Blot

Grade:

custom-made

Target Details

Target:

ABCG5

Alternative Name:

ABCG5 ([ABCG5 Products](#))

Background:

ATP-binding cassette sub-family G member 5 (EC 7.6.2.-) (Sterolin-1),FUNCTION: ABCG5 and ABCG8 form an obligate heterodimer that mediates Mg(2+)- and ATP-dependent sterol transport across the cell membrane (PubMed:27144356). Plays an essential role in the selective transport of dietary plant sterols and cholesterol in and out of the enterocytes and in the selective sterol excretion by the liver into bile (PubMed:11099417, PubMed:11138003, PubMed:27144356, PubMed:15054092). Required for normal sterol homeostasis (PubMed:11099417, PubMed:11138003, PubMed:15054092). The heterodimer with ABCG8 has ATPase activity (PubMed:16893193, PubMed:20210363, PubMed:27144356).
{ECO:0000269|PubMed:11138003, ECO:0000269|PubMed:15054092,
ECO:0000269|PubMed:16893193, ECO:0000269|PubMed:20210363,

Target Details

ECO:0000269|PubMed:27144356, ECO:0000303|PubMed:11590207,
ECO:0000305|PubMed:11099417}.

Molecular Weight: 72.5 kDa

UniProt: [Q9H222](#)

Pathways: [Lipid Metabolism](#)

Application Details

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

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