

Datasheet for ABIN7551763
ABCG1 Protein (AA 1-678) (His tag)



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Overview

Quantity:	1 mg
Target:	ABCG1
Protein Characteristics:	AA 1-678
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ABCG1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant ABCG1 Protein expressed in mammalian cells.
Sequence:	MACLMAAFSV GTAMNASSYS AEMTEPKSVC VSVDEVVSSN MEATETDLLN GHLKKVDNNL TEAQRFSSLP RRAAVNIEFR DLSYSVPEGP WWRKKGYKTL LKGISGKFNS GELVAIMGPS GAGKSTLMNI LAGYRETGMK GAVLINGLPR DLRCFRKVSC YIMQDDMLLP HLTVQEAMMV SAHLKLQEKD EGRREMVKEI LTALGLLSA NTRTGSLSGG QRKRLAIALE LVNNPPVMFF DEPTSGLDSA SCFQVVSLMK GLAQGGRSII CTIHQPSAKL FELFDQLYVL SQGQCVYRGK VCNLVPYLRD LGLNCPTYHN PADFVMEVAS GEYGDQNSRL VRVREGMCD SDHKRDLGGD AEVNPFLWHR PSEEVKQTKR LKGLRKDSSS MEGCHSFSAS CLTQFCILFK RTFLSIMRDS VLTHLRITSH IGIGLLIGLL YLGIGNEAKK VLSNSGFLFF SMLFLMFAAL MPTVLTFFLE MGVFLREHLN YWYSLKAYYL AKTMADVPFQ IMFPVAYCSI VYWMTSQPSD AVRFVLF AAL GTMTSLVAQS LGLLIGAAST SLQVATFVGP VTAIPVLLFS GFFVSFDTIP TYLQWMSYIS YVRYGFEGVI LSIYGLDRED LHCDIDETCH FQKSEAILRE LDVENAKLYL DFIVLGIFFI SLRLIAYFVL RYKIRAER Sequence without tag. The proposed Purification-Tag is based on experiences

Product Details

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: ABCG1

Alternative Name: ABCG1 ([ABCG1 Products](#))

Background: ATP-binding cassette sub-family G member 1 (EC 7.6.2.-) (ATP-binding cassette transporter 8) (White protein homolog),FUNCTION: Catalyzes the efflux of phospholipids such as sphingomyelin, cholesterol and its oxygenated derivatives like 7beta-hydroxycholesterol and this transport is coupled to hydrolysis of ATP (PubMed:17408620, PubMed:24576892). The lipid efflux is ALB-dependent (PubMed:16702602). Is an active component of the macrophage lipid export complex. Could also be involved in intracellular lipid transport processes. The role in cellular lipid homeostasis may not be limited to macrophages. Prevents cell death by transporting cytotoxic 7beta-hydroxycholesterol (PubMed:17408620).
{ECO:0000269|PubMed:16702602, ECO:0000269|PubMed:17408620,

Target Details

ECO:0000269|PubMed:24576892}.

Molecular Weight: 75.6 kDa

UniProt: [P45844](#)

Pathways: [Lipid Metabolism](#)

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