

Datasheet for ABIN7551872
ABCG4 Protein (AA 1-646) (His tag)



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Overview

Quantity:	1 mg
Target:	ABCG4
Protein Characteristics:	AA 1-646
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ABCG4 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant ABCG4 Protein expressed in mammalian cells.
Sequence:	MAEKALEAVG CGLGPGAVAM AVTLEDGAEP PVLTTHLKKV ENHITEAQRF SHLPKRSAVD IEFVELSYSV REGPCWRKRG YKTLKCLSG KFCRRELIGI MGPSGAGKST FMNILAGYRE SGMKGQILVN GRPRELRTFR KMSCYIMQDD MLLPHLTVLE AMMVSANLKL SEKQEVKKEL VTEILTALGL MSCSHTRTAL LSGGQRKRLA IALELVNNPP VMFFDEPTSG LDSASCFQVV SLMKSLAQGG RTIICTIHQF SAKLFEMFDK LYILSQGQCI FKGVVTNLIP YLKGLGLHCP TYHNPADFII EVASGEYGD LNPMLFRAVQN GLCAMAEEKS SPEKNEVPAP CPPCPPEVDP IESHTFATST LTQFCILFKR TFLSILRDTV LTHLRFMSHV VIGVLIGLLY LHIGDDASKV FNNTGCLFFS MLFLMFAALM PTVLTFPLEM AVFMREHLNY WYSLKAYYLA KTMADVPFQV VCPVYCSIV YWMTGQPAET SRLLFSALA TATALVAQSL GLLIGAASNS LQVATFVGPV TAIPVLLFSG FFVSFKTIPT YLQWSSYLSY VRYGFEGVIL TIYGMERGD L TCLEERCPFR EPQSILRALD VEDAKLYMDF LVLGIFFLAL RLLAYLV LRY RVKSER Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different

Product Details

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: ABCG4

Alternative Name: ABCG4 ([ABCG4 Products](#))

Background: ATP-binding cassette sub-family G member 4 (EC 7.6.2.-),FUNCTION: ATP-dependent transporter of the ATP-binding cassette (ABC) family that may be involved in the cellular efflux of sterols, in particular cholesterol and desmosterol (a cholesterol precursor), to high-density lipoprotein (HDL) (PubMed:15240127, PubMed:33141061). May play an important role in the removal of amyloid-beta peptides from brain, in a process that can be antagonized by desmosterol. However it is unclear whether ABCG4 can directly transport amyloid-beta peptides or whether peptide export may be facilitated due to changes in the membrane lipid environment (By similarity). Induces apoptosis in various cells (PubMed:27228027). {ECO:0000250|UniProtKB:Q91WA9, ECO:0000269|PubMed:15240127,

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ECO:0000269|PubMed:27228027, ECO:0000269|PubMed:33141061}.

Molecular Weight: 71.9 kDa

UniProt: [Q9H172](#)

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
