

Datasheet for ABIN3113648 ABCG1 Protein (AA 1-678) (Strep Tag)



Overview

Quantity:	250 µg
Target:	ABCG1
Protein Characteristics:	AA 1-678
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ABCG1 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	MACLMAAFSV GTAMNASSYS AEMTEPKSVC VSVDEVVSSN MEATETDLLN GHLKKVDNNL
	TEAQRFSSLP RRAAVNIEFR DLSYSVPEGP WWRKKGYKTL LKGISGKFNS GELVAIMGPS
	GAGKSTLMNI LAGYRETGMK GAVLINGLPR DLRCFRKVSC YIMQDDMLLP HLTVQEAMMV
	SAHLKLQEKD EGRREMVKEI LTALGLLSCA NTRTGSLSGG QRKRLAIALE LVNNPPVMFF
	DEPTSGLDSA SCFQVVSLMK GLAQGGRSII CTIHQPSAKL FELFDQLYVL SQGQCVYRGK
	VCNLVPYLRD LGLNCPTYHN PADFVMEVAS GEYGDQNSRL VRAVREGMCD SDHKRDLGGD
	AEVNPFLWHR PSEEVKQTKR LKGLRKDSSS MEGCHSFSAS CLTQFCILFK RTFLSIMRDS
	VLTHLRITSH IGIGLLIGLL YLGIGNEAKK VLSNSGFLFF SMLFLMFAAL MPTVLTFPLE
	MGVFLREHLN YWYSLKAYYL AKTMADVPFQ IMFPVAYCSI VYWMTSQPSD AVRFVLFAAL
	GTMTSLVAQS LGLLIGAAST SLQVATFVGP VTAIPVLLFS GFFVSFDTIP TYLQWMSYIS
	YVRYGFEGVI LSIYGLDRED LHCDIDETCH FQKSEAILRE LDVENAKLYL DFIVLGIFFI SLRLIAYFVL

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RYKIRAER Sequence without tag. The proposed Strep-Tag is based on experience s 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 in Germany from design to production by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require posttranslational modifications.
- During lysate production, the cell wall and other cellular components that are not required for
 protein production are removed, leaving only the protein production machinery and the
 mitochondria to drive the reaction. During our lysate completion steps, the additional
 components needed for protein production (amino acids, cofactors, etc.) are added to
 produce something that functions like a cell, but without the constraints of a living system all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).

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Product Details

Purity:	> 70-80 % as determined by SDS PAGE, 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 ir
	cellular lipid homeostasis may not be limited to macrophages. Prevents cell death by
	transporting cytotoxic 7beta-hydroxycholesterol (PubMed:17408620).
	{EC0:0000269 PubMed:16702602, EC0:0000269 PubMed:17408620,
	ECO:0000269 PubMed:24576892}.
Molecular Weight:	75.6 kDa
UniProt:	P45844
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.
Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from
	Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce
	even the most difficult-to-express proteins, including those that require post-translational
	modifications.
	During lysate production, the cell wall and other cellular components that are not required for
	protein production are removed, leaving only the protein production machinery and the
	mitochondria to drive the reaction. During our lysate completion steps, the additional
	components needed for protein production (amino acids, cofactors, etc.) are added to produce

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Application Details	
	something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months