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SH2D1B Protein (AA 1-132) (Strep Tag)



Image



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Overview

Quantity:	1 mg
Target:	SH2D1B
Protein Characteristics:	AA 1-132
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SH2D1B protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

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Product Details	
Sequence:	MDLPYYHGRL TKQDCETLLL KEGVDGNFLL RDSESIPGVL CLCVSFKNIV YTYRIFREKH
	GYYRIQTAEG SPKQVFPSLK ELISKFEKPN QGMVVHLLKP IKRTSPSLRW RGLKLELETF
	VNSNSDYVDV LP
	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 by multi-step, protein-specific process to ensure correct folding and modification.

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reported (not tested by us and not guaranteed).

· These proteins are normally active (enzymatically functional) as our customers have

• 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 will ensure that you receive a correctly folded 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 in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System
	(ALICE®):
	1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.
	Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

Target Details

Target:	SH2D1B
Alternative Name:	SH2D1B (SH2D1B Products)
Background:	SH2 domain-containing protein 1B (EWS/FLI1-activated transcript 2) (EAT-2),FUNCTION:
	Cytoplasmic adapter regulating receptors of the signaling lymphocytic activation molecule
	(SLAM) family such as CD84, SLAMF1, LY9 and CD244 (PubMed:11689425). In SLAM signaling
	seems to cooperate with SH2D1A/SAP. Plays a role in regulation of effector functions of
	natural killer (NK) cells by controlling signal transduction through CD244/2B4 without effecting
	its tyrosine phosphorylation, downstream signaling involves PLCG1 and ERK activation
	(PubMed:24687958). Activation of SLAMF7-mediated NK cell function does not effect receptor
	tyrosine phosphorylation but distal signaling (By similarity). In the context of NK cell-mediated
	cytotoxicity does not enhance conjugate formation with target cells but stimulates polarization
	of the microtubule-organizing center and cytotoxic granules toward the NK cell synapse
	(PubMed:24687958). Negatively regulates CD40-induced cytokine production in dendritic cells
	downstream of SLAM family receptors probably by inducing activation of the PI3K pathway to
	inhibit p38 MAPK and JNK activation (By similarity). {ECO:0000250 UniProtKB:035324,
	ECO:0000269 PubMed:11689425, ECO:0000269 PubMed:24687958,
	ECO:0000305 PubMed:21219180}.
Molecular Weight:	15.3 kDa
UniProt:	014796
Pathways:	Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process
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
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Application Details

Images

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Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)



Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process