Datasheet for ABIN3118020

OSBPL5 Protein (AA 1-879) (Strep Tag)

Go to Product page

Overview

Quantity:	250 µg
Target:	OSBPL5
Protein Characteristics:	AA 1-879
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This OSBPL5 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MKEEAFLRRR FSLCPPSSTP QKVDPRKLTR NLLLSGDNEL YPLSPGKDME PNGPSLPRDE GPPTPSSATK VPPAEYRLCN GSDKECVSPT ARVTKKETLK AQKENYRQEK KRATRQLLSA LTDPSVVIMA DSLKIRGTLK SWTKLWCVLK PGVLLIYKTP KVGQWVGTVL LHCCELIERP SKKDGFCFKL FHPLDQSVWA VKGPKGESVG SITQPLPSSY LIFRAASESD GRCWLDALEL ALRCSSLLRL GTCKPGRDGE PGTSPDASPS SLCGLPASAT VHPDQDLFPL NGSSLENDAF SDKSERENPE ESDTETQDHS RKTESGSDQS ETPGAPVRRG TTYVEQVQEE LGELGEASQV ETVSEENKSL MWTLLKQLRP GMDLSRVVLP TFVLEPRSFL NKLSDYYYHA DLLSRAAVEE DAYSRMKLVL RWYLSGFYKK PKGIKKPYNP ILGETFRCCW FHPQTDSRTF YIAEQVSHHP PVSAFHVSNR KDGFCISGSI TAKSRFYGNS LSALLDGKAT LTFLNRAEDY TLTMPYAHCK GILYGTMTLE LGGKVTIECA KNNFQAQLEF KLKPFFGGST SINQISGKIT SGEEVLASLS GHWDRDVFIK EEGSGSSALF WTPSGEVRRQ RLRQHTVPLE EQTELESERL WQHVTRAISK

GDQHRATQEK FALEEAQRQR ARERQESLMP WKPQLFHLDP ITQEWHYRYE DHSPWDPLKD IAQFEQDGIL RTLQQEAVAR QTTFLGSPGP RHERSGPDQR LRKASDQPSG HSQATESSGS TPESCPELSD EEQDGDFVPG GESPCPRCRK EARRLQALHE AILSIREAQQ ELHRHLSAML SSTARAAQAP TPGLLQSPRS WFLLCVFLAC QLFINHILK

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 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 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.

Product Details

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	OSBPL5
Alternative Name:	OSBPL5 (OSBPL5 Products)
Background:	Oxysterol-binding protein-related protein 5 (ORP-5) (OSBP-related protein 5) (Oxysterol-binding protein homolog 1),FUNCTION: Lipid transporter involved in lipid countertransport between the endoplasmic reticulum and the plasma membrane: specifically exchanges phosphatidylserine with phosphatidylinositol 4-phosphate (PI4P), delivering phosphatidylserine to the plasma membrane in exchange for PI4P, which is degraded by the SAC1/SACM1L phosphatase in the endoplasmic reticulum. Binds phosphatidylserine and PI4P in a mutually exclusive manner (PubMed:23934110, PubMed:26206935). May cooperate with NPC1 to mediate the exit of cholesterol from endosomes/lysosomes (PubMed:21220512). Binds 25-hydroxycholesterol and cholesterol (PubMed:17428193). {ECO:0000269|PubMed:17428193, ECO:0000269|PubMed:21220512, ECO:0000269|PubMed:23934110, ECO:0000269|PubMed:26206935}.
Molecular Weight:	98.6 kDa
UniProt:	Q9H0X9

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

Application Details

	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!
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