

Datasheet for ABIN3134113

Myosin IB Protein (MYO1B) (AA 1-1107) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	Myosin IB (MYO1B)
Protein Characteristics:	AA 1-1107
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Myosin IB protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Brand:	AliCE®
Sequence:	<p>MAKMEVKSSL LDNMIGVGDM VLLEPLNEET FIDNLKKRFD HNEITYIGS VVISVNPYRS</p> <p>LPIYSPEKVE DYRNRNFYEL SPHIFALSDE AYRSLRDQDK DQCILITGES GAGKTEASKL</p> <p>VMSYVAAVCG KGAEVNQVKE QLLQSNPVLE AFGNAKTVRN DNSSRFGKYM DIEDFKGDP</p> <p>LGGVISNYLL EKS RVVKQPR GERNFHV FYQ LLSGASEELL YKLKLERDFS RYNYLSLDSA</p> <p>KVNGVDDAAN FRTVRNAMQI VGFLDHEAEA VLEVVAVLK LGNIEFKPES RVNGLDESKI</p> <p>KDKNELKEIC ELTSIDQVVL ERAFSFRTVE AKQEKVSTTL NVAQAYYARD ALAKNLYSRL</p> <p>FSWLVRINE SIKAQTKVRK KVMGVLDIYG FEIFEDNSFE QFIINYCNEK LQQIFIETL</p> <p>KEEQEEYIRE DIEWTHIDYF NNAICDLIE NNTNGILAML DEECLRPGTV TDETFLEKLN</p> <p>QVCATHQHFE SRMSKCSRFL NDTTLPHSCF RIQHYAGKVL YQVEGFVDKN NDLLYRDL SQ</p> <p>AMWKAGHSLI KSLFPEGNPA KVNLRPPTA GSQFKASVAT LMRNLQTKNP NYIRCIKPND</p> <p>KKAAHIFNES LVCHQIRYLG LLENVRVRRRA GYA FRQAYEP CLERYKMLCK QTWPHWKGPA</p>

RSGVEVLNFNE LEIPVEEHSF GRSKIFIRNP RTLFQLEDLR KQRLEDLATL IQKIYRGWKC
RTHFLMKRS QVVIAAWYRR YAQQKRYQQI KSSALVIQSY IRGWKARKIL RELKHQKRCK
EAATTIAAYW HGTQARRELK RLKEEARRKH AVAVIWAYWL GLKVRREYRK FFRANAGKKI
YEFTLQRIVQ KYLLEMKNKM PSLSPIDKNW PSRPYLFLDS THKELKRIFH LWRCKKYRDQ
FTDQQKLIYE EKLEASELFK DKKALYPSSV GQPFQGAYLE INKNPKYKKL KDAIEEKIII
AEVVKINRA NGKSTSRIFL LTNNNLLLAD QKSGQIKSEV PLVDVTKVSM SSQNDGFFAV
HLKEGSEAAS KGDFLFSSDH LIEMATKLYR TTLSQTKQKL NIEISDEFLV QFRQDKVCVK
FIQGNQKNGS VPTCKRKNNR LLEVAVP

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:

Product Details

- 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®).

Purity: > 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Grade: custom-made

Target Details

Target: Myosin IB (MYO1B)

Alternative Name: Myo1b ([MYO1B Products](#))

Background: Unconventional myosin-Ib (MIH-L) (Myosin I alpha) (MMI-alpha) (MMIa),FUNCTION: Motor protein that may participate in process critical to neuronal development and function such as cell migration, neurite outgrowth and vesicular transport.

Molecular Weight: 128.6 kDa

UniProt: [P46735](#)

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 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!

Application Details

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