Datasheet for ABIN3134722

BMX Protein (AA 1-651) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	BMX
Protein Characteristics:	AA 1-651
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This BMX protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Brand:	AliCE®
Sequence:	MESKSILEEL LLKKSQQKKK MSPNNYKERL FVLTKTSLSY YEYDKMKRGS RKGSIEIKKI RCVEKVNLEE QTPVERQYPF QIVYKDGLLY VYASNEESRC QWLKALQKEI RGNPHLLIKY HSGFFVDGKF LCCQQSCKAA PGCTLWEAYA DLHIAISDEK HRAPTFPERL LKIPRAVPVL KMDASSSGAI LPQYDSYSKK SCGSQPTSNI RYIPREDCPD WWQVRKLKSE EDIACSNQLE RNIASHSTSK MSWGFPESSS SEEEENLHAY DWFAGNISRS QSEQLLRQKG KEGAFMVRNS SQMGMYTVSL FSKAVNDKKG TVKHYHVHTN AENKLYLAEN YCFDSIPKLI HYHQHNSAGM ITRLRHPVST KANKVPVSVA LGSGIWELKR EEITLLKELG NGQFGVVQLG QWKGQYDVAV KMIKEGAMSE DEFFQEAQTM MKLSHPKLVK FYGVCSKKYP IYIVTEYITN GCLLNYLKSH GKGLESCQLL EMCYDVCEGM AFLESHQFIH RDLAARNCLV DSDLSVKVSD FGMTRYVLDD QYVSSVGTKF PVKWSAPEVF HYFKYSSKSD VWAFGILMWE VFSLGKQPYD LYDNSEVVVK VSQGHRLYRP QLASDTIYQI MYSCWHELPE KRPTFQQLLS AIEPLREQDK P

Product Details

	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.
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).

Product Details

Grade:	custom-made

Target Details

Target:	BMX
Alternative Name:	Bmx (BMX Products)
Background:	Cytoplasmic tyrosine-protein kinase BMX (EC 2.7.10.2) (Bone marrow tyrosine kinase gene in chromosome X protein homolog),FUNCTION: Non-receptor tyrosine kinase that plays central but diverse modulatory roles in various signaling processes involved in the regulation of actin reorganization, cell migration, cell proliferation and survival, cell adhesion, and apoptosis. Participates in signal transduction stimulated by growth factor receptors, cytokine receptors, G-protein coupled receptors, antigen receptors and integrins. Induces tyrosine phosphorylation of BCAR1 in response to integrin regulation. Activation of BMX by integrins is mediated by PTK2/FAK1, a key mediator of integrin signaling events leading to the regulation of actin cytoskeleton and cell motility. Plays a critical role in TNF-induced angiogenesis, and implicated in the signaling of TEK and FLT1 receptors, 2 important receptor families essential for angiogenesis. Required for the phosphorylation and activation of STAT3, a transcription factor involved in cell differentiation. Also involved in interleukin-6 (IL6) induced differentiation. Also plays a role in programming adaptive cytoprotection against extracellular stress in different cell systems, salivary epithelial cells, brain endothelial cells, and dermal fibroblasts. May be involved in regulation of endocytosis through its interaction with an endosomal protein RUFY1. May also play a role in the growth and differentiation of hematopoietic cells, as well as in signal transduction in endocardial and arterial endothelial cells. {ECO:0000269|PubMed:11416142}.
Molecular Weight:	75.0 kDa
UniProt:	P97504

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.

Application Details

	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!
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