antibodies

Datasheet for ABIN3089778 BACH2 Protein (AA 1-841) (Strep Tag)





Overview

Quantity:	1 mg
Target:	BACH2
Protein Characteristics:	AA 1-841
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This BACH2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MSVDEKPDSP MYVYESTVHC TNILLGLNDQ RKKDILCDVT LIVERKEFRA HRAVLAACSE
	YFWQALVGQT KNDLVVSLPE EVTARGFGPL LQFAYTAKLL LSRENIREVI RCAEFLRMHN
	LEDSCFSFLQ TQLLNSEDGL FVCRKDAACQ RPHEDCENSA GEEEDEEEET MDSETAKMAC
	PRDQMLPEPI SFEAAAIPVA EKEEALLPEP DVPTDTKESS EKDALTQYPR YKKYQLACTK
	NVYNASSHST SGFASTFRED NSSNSLKPGL ARGQIKSEPP SEENEEESIT LCLSGDEPDA
	KDRAGDVEMD RKQPSPAPTP TAPAGAACLE RSRSVASPSC LRSLFSITKS VELSGLPSTS
	QQHFARSPAC PFDKGITQGD LKTDYTPFTG NYGQPHVGQK EVSNFTMGSP LRGPGLEALC
	KQEGELDRRS VIFSSSACDQ VSTSVHSYSG VSSLDKDLSE PVPKGLWVGA GQSLPSSQAY
	SHGGLMADHL PGRMRPNTSC PVPIKVCPRS PPLETRTRTS SSCSSYSYAE DGSGGSPCSL
	PLCEFSSSPC SQGARFLATE HQEPGLMGDG MYNQVRPQIK CEQSYGTNSS DESGSFSEAD
	SESCPVQDRG QEVKLPFPVD QITDLPRNDF QMMIKMHKLT SEQLEFIHDV RRRSKNRIAA
	QRCRKRKLDC IQNLECEIRK LVCEKEKLLS ERNQLKACMG ELLDNFSCLS QEVCRDIQSP

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN3089778 | 04/16/2024 | Copyright antibodies-online. All rights reserved. EQIQALHRYC PVLRPMDLPT ASSINPAPLG AEQNIAASQC AVGENVPCCL EPGAAPPGPP WAPSNTSENC TSGRRLEGTD PGTFSERGPP LEPRSQTVTV DFCQEMTDKC TTDEQPRKDY T 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:

- 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.
- 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 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:

Key Benefits:

- 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.

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Product DetailsPurification: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.
2. 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)</td>Grade:Crystallography grade

Target Details

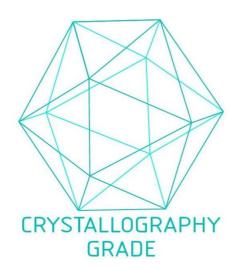
Target:	BACH2
Alternative Name:	BACH2 (BACH2 Products)
Background:	Transcription regulator protein BACH2 (BTB and CNC homolog 2),FUNCTION: Transcriptional regulator that acts as a repressor or activator (By similarity). Binds to Maf recognition elements (MARE) (By similarity). Plays an important role in coordinating transcription activation and repression by MAFK (By similarity). Induces apoptosis in response to oxidative stress through repression of the antiapoptotic factor HMOX1 (PubMed:17018862). Positively regulates the nuclear import of actin (By similarity). Is a key regulator of adaptive immunity, crucial for the maintenance of regulatory T-cell function and B-cell maturation (PubMed:28530713). {ECO:0000250 UniProtKB:P97303, ECO:0000269 PubMed:17018862, ECO:0000269 PubMed:28530713}.
Molecular Weight:	92.5 kDa
UniProt:	Q9BYV9
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

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	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!
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Format: Buffer:	Liquid The buffer composition is at the discretion of the manufacturer. If you have a special request,
	·
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Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.

Images

Expiry Date:



Unlimited (if stored properly)

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