Datasheet for ABIN3130870

CATSPERB Protein (AA 1-1109) (Strep Tag)

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Overview

Quantity:	1 mg
Target:	CATSPERB
Protein Characteristics:	AA 1-1109
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CATSPERB protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MESPLIYVML VLLNVFVFSS GVIHNKGKER TYFSCSGEGI LTGLHTIKLF LTMDNLKVRC FFRNENQSPS KEILGLFTSG GLAPNMIITN STFYGGYYFK LTPFSNRLEW LIDIPRQNIT VNTDIAAVEQ WMIKITMHEG LNIYDTEGTL LDLVREPILQ WNLGRVLTEM EVRDLYPEVN DIKVTKSPCA NDVALIGFMM KPSSNGVFIG KTISGFWTYK ECIWHDLTEI IYAELKDEHQ GLTVIDLVLT NHFLVILTSL GLYVSSDLRY PTTSQIKLSR AEFCGFERVD YIRGNLWYNE KCFANRESFE VDYVTITFNR NRTLSESSSC FFSKEPFLHW LPCVFSTIKN EKSIPRVITF LIDQETDSGI YLFNVQDTKE TYVTVAMLKD GKPSPRPKFP SFHFPSTFTL PLGMIFHPRS HFLYVYGSQI WVSMDGGNTF EMLCNLFSHH VTKTSNSFYT SDIVFIVEDG RILTTKAGLT TYSELGILKD AIFTLYYDQL GYIHKLTPEN FDAGSKLLGH GNSGSIFGKR PDLGFEAILV PQYISTNEMY FFAHVPLTMP TNIQWKKRFK TIHLGKTIEF SKTGLANIKN VYMHKTEPVG FQTSIHTEII VPFGIENSKD SPCLLSDLEI TYSGKLYYTI KLLSKNPLHE LKSTDVEKSV LIPGYSSFLI MNITDKWTAS ALATMPQAIK SNLKFLTGSW FLYNFGTAGG RKWSISTRQC NYWIQQDSLD

FMSLNLVKYI DVGNTIDFQF KIIPKAMSTF PIPPVSMVVG NPGLVEVKTQ GVFDLNENYY LDIHVSGRFF QKGSTSIALV LWEGSSKCYA ITLLPTIKSS CSYLRTMHHT PGRHIPPEDW ISGVHKDSQG FNMIKTLPIN YRPPSHMGIS IPLTDNFYHA DPSKPIPRNQ FHKSKETGKY KQCANVTSRA MCNCSEHQKF SHAVAFSDCK EKVHRFKFPV TQYPVVLEIF NERDKISAEP PYLVTMTEVN MRKNWQLKHN EPENVKKMKH YLEPLLKTPV YNPLGLNLTI QGSELFHFKV SVVPGVSFCE LSEEFQIYVD EVPLPFPGHA LIAVATSVVL GVLIFIAFVF QLRNIHPLKA LKKSIRGNPG LTSSTTVSS

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.

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Product Details

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

Target Details

Target:	CATSPERB
Alternative Name:	Catsperb (CATSPERB Products)
Background:	Cation channel sperm-associated auxiliary subunit beta (CatSper-beta),FUNCTION: Auxiliary component of the CatSper complex, a complex involved in sperm cell hyperactivation (PubMed:34225353, PubMed:17478420). Sperm cell hyperactivation is needed for sperm motility which is essential late in the preparation of sperm for fertilization (PubMed:17478420). {ECO:0000269|PubMed:17478420, ECO:0000269|PubMed:34225353}.
Molecular Weight:	126.1 kDa
UniProt:	A2RTF1

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. 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)

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