

Datasheet for ABIN3094408

PDE11A Protein (AA 1-933) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	PDE11A
Protein Characteristics:	AA 1-933
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PDE11A protein is labelled with Strep Tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MAASRLDFGE VETFLDRHPE LFEDYLMRKG KQEMVEKWLQ RHSQGQGALG PRPSLAGTSS LAHSTCRGGS SVGGGTGPNG SAHSQPLPGG GDCGGVPLSP SWAGGSRGDG NLQRRASQKE LRKSFARSKA IHVNRTYDEQ VTSRAQEPLS SVRRRALLRK ASSLPPTTAH ILSALLESRV NLPRYPPTAI DYKCHLKKHN ERQFFLELVK DISNDLDLTS LSYKILIFVC LMVDADRCSL FLVEGAAAGK KTLVSKFFDV HAGTPLLPSC STENSNEVQV PWGKGIIGYV GEHGETVNIP DAYQDRRFND EIDKLTGYKT KSLLCMPIRS SDGEIIGVAQ AINKIPEGAP FTEDDEKVMQ MYLPFCGIAI SNAQLFAASR KEYERSRALL EVVNDLFEEQ TDLEKIVKKI MHRAQTLLKC ERCSVLLLED IESPVVKFTK SFELMSPKCS ADAENSFKES MEKSSYSDWL INNSIAELVA STGLPVNISD AYQDPRFDE ADQISGFHIR SVLCVPIWNS NHQIIGVAQV LNRLDGKPFD DADQRLFEAF VIFCGLGINN TIMYDQVKKS WAKQSVALDV LSYHATCSKA EVDKFKAANI PLVSELAIDD IHFDDFSLDV DAMITAALRM FMELGMVQKF KIDYETLCRW LLTVRKNYRM

VLYHNWRHAF NVCQLMFAML TTAGFQDILT EVEILAVIVG CLCHDLDRHG TNNAFQAKSG
SALAQLYGTS ATLEHHHFNH AVMILQSEGH NIFANLSSKE YSDLMQLLKQ SILATDLTLY
FERRTEFFEL VSKGEYDWNH KNHRDIFRSM LMTACDLGAV TKPWEISRQV AELVTSEFFE
QGDRERLELK LTPSAIFDRN RKDELPRQLQ EWIDSICMPL YQALVKVNVK LKPMLDSVAT
NRSKWEELHQ KRLLASTASS SPASVMVAKE DRN

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:	PDE11A
Alternative Name:	PDE11A (PDE11A Products)
Background:	Dual 3',5'-cyclic-AMP and -GMP phosphodiesterase 11A (EC 3.1.4.35) (EC 3.1.4.53) (cAMP and cGMP phosphodiesterase 11A),FUNCTION: Plays a role in signal transduction by regulating the intracellular concentration of cyclic nucleotides cAMP and cGMP (PubMed:10725373, PubMed:10906126, PubMed:11050148, PubMed:16330539). Catalyzes the hydrolysis of both cAMP and cGMP to 5'-AMP and 5'-GMP, respectively (PubMed:10725373, PubMed:10906126, PubMed:11050148). {ECO:0000269 PubMed:10725373, ECO:0000269 PubMed:10906126, ECO:0000269 PubMed:11050148, ECO:0000269 PubMed:16330539}.
Molecular Weight:	104.8 kDa
UniProt:	Q9HCR9
Pathways:	cAMP Metabolic Process

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:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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</p>

Application Details

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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