Datasheet for ABIN3114647

PDE3B Protein (AA 1-1112) (Strep Tag)

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Overview

Quantity:	1 mg
Target:	PDE3B
Protein Characteristics:	AA 1-1112
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PDE3B protein is labelled with Strep Tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS)

Product Details

Sequence:	MRRDERDAKA MRSLQPPDGA GSPPESLRNG YVKSCVSPLR QDPPRGFFFH LCRFCNVELR PPPASPQQPR RCSPFCRARL SLGALAAFVL ALLLGAEPES WAAGAAWLRT LLSVCSHSLS PLFSIACAFF FLTCFLTRTK RGPGPGRSCG SWWLLALPAC CYLGDFLVWQ WWSWPWGDGD AGSAAPHTPP EAAAGRLLLV LSCVGLLLTL AHPLRLRHCV LVLLLASFVW WVSFTSLGSL PSALRPLLSG LVGGAGCLLA LGLDHFFQIR EAPLHPRLSS AAEEKVPVIR PRRRSSCVSL GETAASYYGS CKIFRRPSLP CISREQMILW DWDLKQWYKP HYQNSGGGNG VDLSVLNEAR NMVSDLLTDP SLPPQVISSL RSISSLMGAF SGSCRPKINP LTPFPGFYPC SEIEDPAEKG DRKLNKGLNR NSLPTPQLRR SSGTSGLLPV EQSSRWDRNN GKRPHQEFGI SSQGCYLNGP FNSNLLTIPK QRSSSVSLTH HVGLRRAGVL SSLSPVNSSN HGPVSTGSLT NRSPIEFPDT ADFLNKPSVI LQRSLGNAPN TPDFYQQLRN SDSNLCNSCG HQMLKYVSTS ESDGTDCCSG KSGEEENIFS KESFKLMETQ QEEETEKKDS RKLFQEGDKW LTEEAQSEQQ TNIEQEVSLD LILVEEYDSL IEKMSNWNFP IFELVEKMGE KSGRILSQVM YTLFQDTGLL EIFKIPTQQF

MNYFRALENG YRDIPYHNRI HATDVLHAVW YLTTRPVPGL QQIHNGCGTG NETDSDGRIN HGRIAYISSK SCSNPDESYG CLSSNIPALE LMALYVAAAM HDYDHPGRTN AFLVATNAPQ AVLYNDRSVL ENHHAASAWN LYLSRPEYNF LLHLDHVEFK RFRFLVIEAI LATDLKKHFD FLAEFNAKAN DVNSNGIEWS NENDRLLVCQ VCIKLADING PAKVRDLHLK WTEGIVNEFY EQGDEEANLG LPISPFMDRS SPQLAKLQES FITHIVGPLC NSYDAAGLLP GQWLEAEEDN DTESGDDEDG EELDTEDEEM ENNLNPKPPR RKSRRRIFCQ LMHHLTENHK IWKEIVEEEE KCKADGNKLQ VENSSLPQAD EIQVIEEADE EE

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:	PDE3B
Alternative Name:	PDE3B (PDE3B Products)
Background:	CGMP-inhibited 3',5'-cyclic phosphodiesterase 3B (EC 3.1.4.17) (CGIPDE1) (CGIP1) (Cyclic GMP-inhibited phosphodiesterase B) (CGI-PDE B),FUNCTION: Cyclic nucleotide phosphodiesterase with a dual-specificity for the second messengers cAMP and cGMP, which are key regulators of many important physiological process (PubMed:14592490, PubMed:21393242). Regulates angiogenesis by inhibiting the cAMP-dependent guanine nucleotide exchange factor RAPGEF3 and downstream phosphatidylinositol 3-kinase gamma-mediated signaling (PubMed:21393242). Controls cardiac contractility by reducing cAMP concentration in cardiocytes (By similarity). {ECO:0000250|UniProtKB:Q61409, ECO:0000269|PubMed:14592490, ECO:0000269|PubMed:21393242}.
Molecular Weight:	124.3 kDa
UniProt:	Q13370
Pathways:	Negative Regulation of Hormone Secretion, Carbohydrate Homeostasis, 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:	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. 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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