Datasheet for ABIN3132310

PDE4A Protein (AA 1-844) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	PDE4A
Protein Characteristics:	AA 1-844
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PDE4A protein is labelled with Strep Tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MEPPAAPSER SLSLSLPGPR EGQATLKPPP QHLWRQPRTP IRIQQRGYSD SAERSEPERS PHRPIERADA VDTGDRPGLR TTRMSWPSSF HGTGTGGGSS RRLEAENGPT PSPGRSPLDS QASPGLMLHA GAATSQRRES FLYRSDSDYD MSPKTMSRNS SVASEAHGED LIVTPFAQVL ASLRNVRSNF SLLTNVPIPS NKRSPLGGPP SVCKATLSEE TCQQLARETL EELDWCLEQL ETMQTYRSVS EMASHKFKRM LNRELTHLSE MSRSGNQVSE YISNTFLDKQ HEVEIPSPTP RQRPFQQPPP AAVQQAQPMS QITGLKKLVH TGSLNINVPR FGVKTDQEDL LAQELENLSK WGLNIFCVSE YAGGRSLSCI MYTIFQERDL LKKFHIPVDT MMTYMLTLED HYHADVAYHN SLHAADVLQS THVLLATPAL DAVFTDLEIL AALFAAAIHD VDHPGVSNQF LINTNSELAL MYNDESVLEN HHLAVGFKLL QEENCDIFQN LSKRQRQSLR KMVIDMVLAT DMSKHMTLLA DLKTMVETKK VTSSGVLLLD NYSDRIQVLR NMVHCADLSN PTKPLELYRQ WTDRIMAEFF QQGDRERERG MEISPMCDKH TASVEKSQVG FIDYIVHPLW ETWADLVHPD AQDILDTLED

NRDWYHSAIR QSPSPTLEEE PGVLSDPALP DKFQFELTLE EEDEEDSLEV PGLPCTEETL LAPHDTRAQA MEQSKVKGQS PAVVEVAESL KQETASAHGA PEESAEAVGH SFSLETSILP DLRTLSPSEE AQGLLGLPSM AAEVEAPRDH LAAMRACSAC SGTSGDNSAV ISAPGRWGSG GDPA

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:	PDE4A
Alternative Name:	Pde4a (PDE4A Products)
Background:	3',5'-cyclic-AMP phosphodiesterase 4A (EC 3.1.4.53) (cAMP-specific phosphodiesterase 4A),FUNCTION: Hydrolyzes the second messenger 3',5'-cyclic AMP (cAMP), which is a key regulator of many important physiological processes. {ECO:0000269|PubMed:11267656}., FUNCTION: [Isoform 2]: Efficiently hydrolyzes cAMP. {ECO:0000269|PubMed:11267656}.
Molecular Weight:	93.6 kDa
UniProt:	O89084
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:	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!
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