

Datasheet for ABIN3132127

PDE8A Protein (AA 1-823) (Strep Tag)



[Go to Product page](#)

Overview

Quantity:	250 µg
Target:	PDE8A
Protein Characteristics:	AA 1-823
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PDE8A protein is labelled with Strep Tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	<p>MGCAPSIHTS ENRTFSHSDG EDEDVDVDVP GPAPRSIQRW STAPGLVEPQ PRDNGASKVS</p> <p>VADVQFGPMR FHQDQLQVLL VFTKEDSQCN GFHRACEKAG FKCTVTKEVQ TVLTCFQDKL</p> <p>HDIIIDHRY PRQMDAETLC RSIRSSKFSE NTVIVGVVRR VDKESSLMP FLAAGFTRRF</p> <p>IENPNVMACY NELLQLACGE VRSQKLKLRAC NSVFTALEKS QEAEITSED HIIQYANPAF</p> <p>ESTMGYQSGE LIGKELAQVP INEKKGDLDD AINSCVTVDK EWQGVYHTQK KNGDNIQQNV</p> <p>KIIPVIGQGG KIRHYVSIIR VCNNGNKNVET TTECVQTDSQ TDNQAGKHKD RRKHSMDAKA</p> <p>VSSRTSDVSS QRRHSSLARI HSMMEAPIT KVINIINAAQ ENSPVPVTEA LNRVLDILRT</p> <p>TELYSPQFNA QDDPHATDLV GGLMSDGLRR FSGNEYILAT KNLPPLSNL ATPVSLHDVP</p> <p>PRIALAIENE EQWDFDIFEL EVATQNRPLI YLGLKTFARF GMCEFLQCSE TTLRSWFQMI</p> <p>ESNYHSSNPY HNSTHAADV L HATAYFLSRD KIKETLDRID EVAALIAATV HDVDHPGRTN</p> <p>SFLCNAGNQL AVLYNDTAVL ESHHVALAFQ LTLENDQCNI FKQMERNDYR TLRQSIIDMV</p>

LATEMTKHFE HVNKFINSIN KPLTAQESEE PDRSLEDIKA MLKTPESRAL IKRMMIKCAD
VSNPCRPLEH CIEWAARISE EYFSQTDEEK QLDLPVVMPPV FDRNTCSIPK SQISFIDYFI
TDMFDAWDAF VDLPNLMQHL DDNFRYWKGL DEKKLRSLRP PPE

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.

Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression

Product Details

	System (ALiCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	PDE8A
Alternative Name:	Pde8a (PDE8A Products)
Background:	High affinity cAMP-specific and IBMX-insensitive 3',5'-cyclic phosphodiesterase 8A (MmpDE8) (EC 3.1.4.53),FUNCTION: Hydrolyzes the second messenger cAMP, which is a key regulator of many important physiological processes. May be involved in maintaining basal levels of the cyclic nucleotide and/or in the cAMP regulation of germ cell development. Binding to RAF1 reduces RAF1 'Ser-259' inhibitory-phosphorylation and stimulates RAF1-dependent EGF-activated ERK-signaling. Protects against cell death induced by hydrogen peroxide and staurosporine. {ECO:0000250 UniProtKB:O60658}.
Molecular Weight:	93.2 kDa
UniProt:	O88502
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 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!</p>

Application Details

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