

Datasheet for ABIN3094479

PDE5A Protein (AA 1-875) (Strep Tag)



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Quantity:	250 μg
Target:	PDE5A
Protein Characteristics:	AA 1-875
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PDE5A protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Brand:	AliCE®
Sequence:	MERAGPSFGQ QRQQQPQQQ KQQQRDQDSV EAWLDDHWDF TFSYFVRKAT REMVNAWFAE
	RVHTIPVCKE GIRGHTESCS CPLQQSPRAD NSAPGTPTRK ISASEFDRPL RPIVVKDSEG
	TVSFLSDSEK KEQMPLTPPR FDHDEGDQCS RLLELVKDIS SHLDVTALCH KIFLHIHGLI
	SADRYSLFLV CEDSSNDKFL ISRLFDVAEG STLEEVSNNC IRLEWNKGIV GHVAALGEPL
	NIKDAYEDPR FNAEVDQITG YKTQSILCMP IKNHREEVVG VAQAINKKSG NGGTFTEKDE
	KDFAAYLAFC GIVLHNAQLY ETSLLENKRN QVLLDLASLI FEEQQSLEVI LKKIAATIIS
	FMQVQKCTIF IVDEDCSDSF SSVFHMECEE LEKSSDTLTR EHDANKINYM YAQYVKNTME
	PLNIPDVSKD KRFPWTTENT GNVNQQCIRS LLCTPIKNGK KNKVIGVCQL VNKMEENTGK
	VKPFNRNDEQ FLEAFVIFCG LGIQNTQMYE AVERAMAKQM VTLEVLSYHA SAAEEETREL
	QSLAAAVVPS AQTLKITDFS FSDFELSDLE TALCTIRMFT DLNLVQNFQM KHEVLCRWIL
	SVKKNYRKNV AYHNWRHAFN TAQCMFAALK AGKIQNKLTD LEILALLIAA LSHDLDHRGV

NNSYIQRSEH PLAQLYCHSI MEHHHFDQCL MILNSPGNQI LSGLSIEEYK TTLKIIKQAI LATDLALYIK RRGEFFELIR KNQFNLEDPH QKELFLAMLM TACDLSAITK PWPIQQRIAE LVATEFFDQG DRERKELNIE PTDLMNREKK NKIPSMQVGF IDAICLQLYE ALTHVSEDCF PLLDGCRKNR QKWQALAEQQ EKMLINGESG QAKRN

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 posttranslational 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** PDE5A Target: Alternative Name: PDE5A (PDE5A Products) Background: CGMP-specific 3',5'-cyclic phosphodiesterase (EC 3.1.4.35) (cGMP-binding cGMP-specific phosphodiesterase) (CGB-PDE), FUNCTION: Plays a role in signal transduction by regulating the intracellular concentration of cyclic nucleotides. This phosphodiesterase catalyzes the specific hydrolysis of cGMP to 5'-GMP (PubMed:9714779, PubMed:15489334). Specifically regulates nitric-oxide-generated cGMP (PubMed:15489334). {ECO:0000269|PubMed:15489334, ECO:0000269|PubMed:9714779}. Molecular Weight: 100.0 kDa UniProt: 076074 Pathways: Regulation of G-Protein Coupled Receptor Protein Signaling **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. 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	