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Datasheet for ABIN3085805 PDE4D Protein (AA 1-809) (Strep Tag)





Overview

Quantity:	1 mg
Target:	PDE4D
Protein Characteristics:	AA 1-809
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PDE4D protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Sequence:	MEAEGSSAPA RAGSGEGSDS AGGATLKAPK HLWRHEQHHQ YPLRQPQFRL LHPHHHLPPP
	PPPSPQPQPQ CPLQPPPPPP LPPPPPPGA ARGRYASSGA TGRVRHRGYS DTERYLYCRA
	MDRTSYAVET GHRPGLKKSR MSWPSSFQGL RRFDVDNGTS AGRSPLDPMT SPGSGLILQA
	NFVHSQRRES FLYRSDSDYD LSPKSMSRNS SIASDIHGDD LIVTPFAQVL ASLRTVRNNF
	AALTNLQDRA PSKRSPMCNQ PSINKATITE EAYQKLASET LEELDWCLDQ LETLQTRHSV
	SEMASNKFKR MLNRELTHLS EMSRSGNQVS EFISNTFLDK QHEVEIPSPT QKEKEKKKRP
	MSQISGVKKL MHSSSLTNSS IPRFGVKTEQ EDVLAKELED VNKWGLHVFR IAELSGNRPL
	TVIMHTIFQE RDLLKTFKIP VDTLITYLMT LEDHYHADVA YHNNIHAADV VQSTHVLLST
	PALEAVFTDL EILAAIFASA IHDVDHPGVS NQFLINTNSE LALMYNDSSV LENHHLAVGF
	KLLQEENCDI FQNLTKKQRQ SLRKMVIDIV LATDMSKHMN LLADLKTMVE TKKVTSSGVL
	LLDNYSDRIQ VLQNMVHCAD LSNPTKPLQL YRQWTDRIME EFFRQGDRER ERGMEISPMC
	DKHNASVEKS QVGFIDYIVH PLWETWADLV HPDAQDILDT LEDNREWYQS TIPQSPSPAP

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DDPEEGRQGQ TEKFQFELTL EEDGESDTEK DSGSQVEEDT SCSDSKTLCT QDSESTEIPL DEQVEEEAVG EEEESQPEAC VIDDRSPDT

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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 will ensure that you receive a correctly folded 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 in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Product DetailsPurification:Two step purification of proteins expressed in Almost Living Cell-Free Expression System
(ALICE®):
1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag
capture material. Eluate fractions are analyzed by SDS-PAGE.
2. Protein containing fractions of the best purification are subjected to second purification step
through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and
Western blot.Purity:>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.Endotoxin Level:Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)</td>Grade:Crystallography grade

Target Details

Target:	PDE4D
Alternative Name:	PDE4D (PDE4D Products)
Background:	3',5'-cyclic-AMP phosphodiesterase 4D (EC 3.1.4.53) (DPDE3) (PDE43) (cAMP-specific phosphodiesterase 4D),FUNCTION: Hydrolyzes the second messenger cAMP, which is a key regulator of many important physiological processes. {ECO:0000269 PubMed:15260978, ECO:0000269 PubMed:15576036, ECO:0000269 PubMed:9371713}.
Molecular Weight:	91.1 kDa
UniProt:	Q08499
Pathways:	Cellular Response to Molecule of Bacterial Origin, cAMP Metabolic Process, Myometrial Relaxation and Contraction, Regulation of G-Protein Coupled Receptor Protein Signaling

Application Details

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.
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

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Application Details	
	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

Expiry Date: Unlimited (if stored properly)

Store at -80°C.

Images

Storage Comment:



Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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