

Datasheet for ABIN7554896

## PDE3A Protein (AA 1-1141) (His tag)



[Go to Product page](#)

### Overview

Quantity:	1 mg
Target:	PDE3A
Protein Characteristics:	AA 1-1141
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PDE3A protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Purpose:	Custom-made recombinat PDE3A Protein expressed in mammalian cells.
Sequence:	MAVPGDAARV RDKPVHSGVS QAPTAGRDCH HRADPASPRD SGCRGCWGD LVLQPLRSSRK LSSALCAGSL SFLALLVRL VRGEVGC DLE QCKEAAAAEE EEAAPGAEGG VFPGPRGGAP GGGARLSPWL QPSALLFSL CAFFWMGLYL LRAGVRLPLA VALLAACCGG EALVQIGLGV GEDHLLSLPA AGVVLSC LA A TWLVLRRL GVLMIALTSA VRTVSLISLE RFKVAWRPYL AYLAGVLGIL LARYVEQILP QSAEAAPREH LGSQLIAGTK EDIPVFKRRR RSSSVVSAEM SGCSSKSHRR TSLPCIPREQ LMGHSEWDHK RGPRGSQSSG TSITVDIAVM GEAHGLITDL LADPSLPPNV CTSRAVS NL LSTQLTFQAI HKPRVNPVTS LSENYTCSDS EESSEKDKLA IPKRLRRSLP PGLLRVSST WTTTTSATGL PTLEPAPVRR DRSTSIKLQE APSSSPDSWN NPVMMTLTKS RSFTSSY AIS AANHVKAKKQ SRPGALAKIS PLSSPCSSPL QGTPASSLVS KISAVQFPES ADTTAKQSLG SHRALTYTQS APDLSPQILT PPVICSSCGR PYSQGNPADE PLERSGVATR TPSRTDDTAQ VTS DYETNNN SDSSDIVQNE DETECLREPL RKASACSTYA

PETMMFLDKP ILAPEPLVMD NLDSIMEQLN TWNFPIFDLV ENIGRKCGRI LSQVSYRLFE  
DMGLFEAFKI PIREFMNYFH ALEIGYRDIP YHNRIHATDV LHAVWYLTTQ PIPGLSTVIN  
DHGSTSDSDS DSGFTHGHMG YVFSKTYNVT DDKYGCLSGN IPALELMALY VAAAMHDYDH  
PGRтнаFLVA TSAPQAVLYN DRSVLENHHA AAAWNLFMSR PEYNFLINLD HVEFKHFRFL  
VIEAILATDL KKHFDVAKF NGKVNDDVGI DWTNENDRLL VCQMCIKLAD INGPAKCKEL  
HLQWTDGIVN EFYEQGDEEA SLGLPISPFM DRSAPQLANL QESFISHIVG PLCNSYDSAG  
LMPGKWVEDS DESGDTDDPE EEEEEAPAPN EEETCENNES PKKKTFRKRK IYCQITQHLL  
QNHKMWKKVI EEEQRLAGIE NQSLDQTPQS HSSEQIQAIAK EEEEEKGKPR GEEIPTQKPD Q

**Sequence without tag. The proposed Purification-Tag is based on experiences 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 to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

Grade:

custom-made

Target Details

Target:

PDE3A

Alternative Name:

PDE3A ([PDE3A Products](#))

Background:

CGMP-inhibited 3',5'-cyclic phosphodiesterase 3A (EC 3.1.4.17) (Cyclic GMP-inhibited phosphodiesterase A) (CGI-PDE A) (cGMP-inhibited cAMP phosphodiesterase) (cGI-

## Target Details

PDE),FUNCTION: Cyclic nucleotide phosphodiesterase with specificity for the second messengers cAMP and cGMP, which are key regulators of many important physiological processes (PubMed:1315035, PubMed:8695850, PubMed:8155697, PubMed:25961942). Has also activity toward cUMP (PubMed:27975297). Independently of its catalytic activity it is part of an E2/17beta-estradiol-induced pro-apoptotic signaling pathway. E2 stabilizes the PDE3A/SLFN12 complex in the cytosol, promoting the dephosphorylation of SLFN12 and activating its pro-apoptotic ribosomal RNA/rRNA ribonuclease activity. This apoptotic pathway might be relevant in tissues with high concentration of E2 and be for instance involved in placenta remodeling (PubMed:31420216, PubMed:34707099).

{ECO:0000269|PubMed:1315035, ECO:0000269|PubMed:25961942, ECO:0000269|PubMed:27975297, ECO:0000269|PubMed:31420216, ECO:0000269|PubMed:34707099, ECO:0000269|PubMed:8155697, ECO:0000269|PubMed:8695850}.

Molecular Weight:	125.0 kDa
UniProt:	<a href="#">Q14432</a>
Pathways:	<a href="#">cAMP Metabolic Process</a>

## 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.
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months