

Datasheet for ABIN7565262

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



[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	PDE3A
Protein Characteristics:	AA 1-1141
Origin:	Mouse
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:	<p>MAVRGEAAQD LAKPGLGGAS PARVARGNHR HRGESSPSPR GSGCCWRALA LQPLRRSPQL</p> <p>SSALCAGSL S VLLALLVRLV GGEVGGEEK SQEAAAAEEEE EEGARGGVFP GPRGGAPGGG</p> <p>AQLSPWLQPA ALLFSL LCAF FWMGLCLLRA GVRLPLAVAL LAACCAGEAL VQLSLGVGDG</p> <p>RLLSLPAAGV LLSCLGGATW LVLRLRLGVL MVAWTSVLRT VALVSLERFK VAWRPYLAYL</p> <p>AAVLG LLLAR YAEQILPQCS GPAPPRERFG SQLSARTKEE IPGWKRRRRS SSVVAGEMSG</p> <p>CSGKSHRRTS LPCIPREQLM GHSEWDHKRG PRGSQSGTSI TVDIAMGEA HGLITDLLAD</p> <p>PSLPPNVCTS LRAVSNLLST QLTFQAIHKP RVNPTVTFSE NYTCSDSEEG LEKDKQAISK</p> <p>RLRRSLPPGL LRRVSSTWTT TTSATGLPTL EPAPVRRDRS ASIKPHEAPS PSAVNPDSWN</p> <p>APGLTTLT KS RSFTSSYAVS AANHVKAKKQ NRPGLLAKIS PVPSPSSSPP QGSPASSPVS</p> <p>NSASQQFPES PEVTIKRPG SHRALTYTQS APDLSPQIPP PSVICSSCGR PYSQGNPADG</p> <p>PSERSGPAML KPNRTDDTSQ VTSYETNNN SDSSDILQNE EEAECQREPQ RKASACGTYT</p>

SQTMIFLDKP ILAPEPLVMD NLDSIMDQLN TWNFPIFDLM ENIGRKCGRI LSQVSYRLFE
DMGLFEAFKI PVREFMNYFH ALEIGYRDIP YHNRIHATDV LHAVWYLTTQ PIPGLPSVIG
DHGSASDS SDSGFTGHMG YVFSKMYHVP DDKYGCLSGN IPALELMALY VAAAMHDYDH
PGRTNAFLVA TSAPQAVLYN DRSVLENHHA AAAWNLFMSR PEYNFLVNLD HVEFKHFRFL
VIEAILATDL KKHFDVAKF NAKVNDDVGI DWTNENDRLL VCQMCIKLAD INGPAKCKEL
HLRWTEGIAS EFYEQGDEEA SLGLPISPFM DRSAPQLANL QESFISHIVG PLCHSYDSAG
LMPGKWVDDS DDSGDTDDPE EEEEEAETPH EDEACESSIA PRKKSFKRRR IYCQITQHLL
QNHMMWKKVI EEEQCLSGTE NQSLDQVPLQ HPSEIQAIK EEEEEKGKPR AEETLAPQPD L

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:	<p>Key Benefits:</p> <ul style="list-style-type: none">• 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). <p>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.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p>
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),FUNCTION: Cyclic nucleotide phosphodiesterase with

Target Details

specificity for the second messengers cAMP and cGMP, which are key regulators of many important physiological processes (PubMed:11420239). Has also activity toward cUMP (By similarity). 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 (By similarity). {ECO:0000250|UniProtKB:Q14432, ECO:0000269|PubMed:11420239}.

Molecular Weight:	124.5 kDa
UniProt:	Q9Z0X4
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.
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