

Datasheet for ABIN7563913

PDE3B Protein (AA 1-1100) (His tag)



[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	PDE3B
Protein Characteristics:	AA 1-1100
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PDE3B protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Pde3b Protein expressed in mammalian cells.
Sequence:	<p>MRKDERERDA PAMRSPPPPP ASAASPPEL RRGYVKSCVS PLRQDPPRSF FFHLCRFCNV</p> <p>EPPAASLRAG ARLSLGVLA FVLAALLGAR PERWAAAAAG LRTLLSACSL SLSPLFSIAC</p> <p>AFFFLTCLT RAQRGPGRGA GSWWLLALPA CCYLGDFAAW QWWSWLRGEP AAAGRLCLVL</p> <p>SCVGLLTLAP RVRLRHGVLV LLFAGLVWWV SFSGLGALPP ALRPLLSCLV GGAGCLLALG</p> <p>LDHFFHVRGA SPPPRSASTA EEKVPVIRPR RRSSCVSLGE SAAGYYGSGK MFRRPSLPCI</p> <p>SREQMILWDW DLKQWCKPHY QNSGGGNGVD LSVLNEARNM VSDLLIDPSL PPQVISSLRS</p> <p>ISSLMGAFSG SCRPKINSFT PFPGFYPCSE VEDPVEKGDR KLHKGLSGRT SFPTPQLRRS</p> <p>SGASSLLTNE HCSRWDRSSG KRSYQELSVS SHGCHLNGPF SSNLFTIPKQ RSSSVSLTHH</p> <p>AGLRRAGALP SHSLLNSSSH VPSAGSLTN RSPIGFPDIT DFLTKPNIIL HRLSGSVSSA</p> <p>ADFHQYLRNS DSNLCSSCGH QILKYVSTCE PDGTDHPSEK SGEDSSVFS KEPLNIVETQ</p> <p>EEETMKKACR ELFLEGDSLH MEEAQQPNID QEVSLDPMLV EDYDSLIEKM NNWNFQIFEL</p> <p>VEKMGEKSGR ILSQVMTLTF QDTGLLETFK IPTQEFMNYF RALENGYRDI PYHNRVHATD</p>

Product Details

VLHAVWYLTT RPIPLPQIH NNHETETKAD SDGRLGSGQI AYISSKSCCI PDMSYGCLSS
NIPALELMAL YVAAAMHDYD HPGRTNAFLV ATNAPQAVLY NDRSVLENHH AASAWNLYLS
RPEYNFLLNL DHMEFKRFRF LVIEAILATD LKKHFDLAE FNAKANDVNS NGIEWSSSEND
RLLVCQVCIK LADINGPAKD RDLHLRWTEG IVNEFYEQGD EEAALGLPIS PFMDRSSPQL
AKLQESFITH IVGPLCNSYD AAGLLPGQWI ETEEGDDTES DDDDDDDDDGD GGEELDSDDDE
ETEDNLNPKP QRRKGRRRIF CQLMHHLTEN HKIWKEIEE EEEKCKAEGN KLQVDNASLP
QADEIQVIEE ADEEEEQMFE **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.**

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

Target Details

Target: PDE3B

Alternative Name: Pde3b ([PDE3B Products](#))

Background: CGMP-inhibited 3',5'-cyclic phosphodiesterase 3B (EC 3.1.4.17) (CGIPDE1) (Cyclic GMP-inhibited phosphodiesterase B) (CGI-PDE B),FUNCTION: Cyclic nucleotide phosphodiesterase

Target Details

with a dual-specificity for the second messengers cAMP and cGMP, which are key regulators of many important physiological processes (PubMed:10454575). Regulates angiogenesis by inhibiting the cAMP-dependent guanine nucleotide exchange factor RAPGEF3 and downstream phosphatidylinositol 3-kinase gamma-mediated signaling (By similarity). Controls cardiac contractility by reducing cAMP concentration in cardiocytes (PubMed:15294162). {ECO:0000250|UniProtKB:Q13370, ECO:0000269|PubMed:10454575, ECO:0000269|PubMed:15294162}.

Molecular Weight: 122.2 kDa

UniProt: [Q61409](#)

Pathways: [Negative Regulation of Hormone Secretion](#), [Carbohydrate Homeostasis](#), [cAMP Metabolic Process](#)

Application Details

Application Notes: We expect the protein to work for functional studies. 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