

Datasheet for ABIN7554888

PDE3B Protein (AA 1-1112) (His tag)



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Overview

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| Quantity: | 1 mg |
| Target: | PDE3B |
| Protein Characteristics: | AA 1-1112 |
| Origin: | Human |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This PDE3B protein is labelled with His tag. |

Product Details

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| Purpose: | Custom-made recombinant PDE3B Protein expressed in mammalian cells. |
| Sequence: | <p>MRRDERDAKA MRSLQPPDGA GSPPESLRNG YVKSCVSPLR QDPPRGFFFH LCRFCNVELR</p> <p>PPPASPQQR RCSPFCRRL SLGALAAFVL ALLLGAEPES WAAGAAWLRT LLSVCSHSL</p> <p>PLFSIACAFF FLTCFLTRTK RGPGRSCG SWWLLALPAC CYLGDFLVWQ WWSWPWGDGD</p> <p>AGSAAPHTPP EAAAGRLLLV LSCVGLLLTL AHPLRLRHCV LVLLASFVW WVSFTSLGSL</p> <p>PSALRPLLSG LVGGAGCLLA LGLDHFFQIR EAPLHPRLS AAEKVPVIR PRRRSSCVSL</p> <p>GETAASYGS CKIFRRPSLP CISREQMILW DWDLKQWYKP HYQNSGGGNG VDLSVLNEAR</p> <p>NMVSDLLTDP SLPPQVISSL RSISLMGAF SGSCRPKINP LTPFGFYPC SEIEDPAEKG</p> <p>DRKLNKGLNR NSLPTQLRR SSGTSGLLPV EQSSRWDRNN GKRPHQEFI SSQGCYLN</p> <p>FNSNLLTIK QRSSSVSLTH HVGLRRAGVL SSLSPVNSSN HGPVSTGSLT NRSPIEFPDT</p> <p>ADFLNKPSVI LQRSLGNAPN TPDFYQQLRN SDSNLCNSCG HQMLKYVSTS ESDGTDCSCG</p> <p>KSGEEENIFS KESFKLMETQ QEEETKKDS RKLFEQGDW LTEEAQSEQQ TNIEQEVSLD</p> <p>LILVEEYDSL IEKMSNWNFP IFELVEKMGE KSGRILSQVM YTLFQDTGLL EIFKIPTQQF</p> |

Product Details

MNYFRALENG YRDIPYHNRI HATDVLHAVW YLTTRPVPL QQIHNGCGTG NETDSDGRIN
HGRIAYISSK SCSNPDESYG CLSSNIPALE LMALYVAAAM HDYDHPGRTN AFLVATNAPQ
AVLYNDRSVL ENHHAASAWN LYLSRPEYNF LLHLDHVEFK RFRFLVIEAI LATDLKKHFD
FLAEFNAKAN DVNSNGIEWS NENDRLLVCQ VCIKLADING PAKVRDLHLK WTEGIVNEFY
EQGDDEANLG LPISPFMDRS SPQLAKLQES FITHIVGPLC NSYDAAGLLP GQWLEAEEDN
DTESGDDEDG EELDTEDEEM ENNLNPKPPR RKSRRRIFCQ LMHHLTENHK IWKEIVVEEE
KCKADGNKLQ VENSSLPQAD EIQVIEEAE EE **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) (CGIP1) (Cyclic

Target Details

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| | GMP-inhibited phosphodiesterase B) (CGI-PDE B),FUNCTION: Cyclic nucleotide phosphodiesterase with a dual-specificity for the second messengers cAMP and cGMP, which are key regulators of many important physiological process (PubMed:14592490, PubMed:21393242). Regulates angiogenesis by inhibiting the cAMP-dependent guanine nucleotide exchange factor RAPGEF3 and downstream phosphatidylinositol 3-kinase gamma-mediated signaling (PubMed:21393242). Controls cardiac contractility by reducing cAMP concentration in cardiocytes (By similarity). {ECO:0000250 UniProtKB:Q61409, ECO:0000269 PubMed:14592490, ECO:0000269 PubMed:21393242}. |
| Molecular Weight: | 124.3 kDa |
| UniProt: | Q13370 |
| Pathways: | Negative Regulation of Hormone Secretion , Carbohydrate Homeostasis , cAMP Metabolic Process |

Application Details

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| 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

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| 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 |