



[Go to Product page](#)

Datasheet for ABIN3135406

## PDE3B Protein (AA 1-1100) (rho-1D4 tag)

### 1 Image

#### Overview

Quantity:	1 mg
Target:	PDE3B
Protein Characteristics:	AA 1-1100
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PDE3B protein is labelled with rho-1D4 tag.
Application:	Western Blotting (WB), ELISA, Crystallization (Crys), SDS-PAGE (SDS)

#### Product Details

Sequence: MRKDERERDA PAMRSPPPPP ASAASPPEL RNGYVKSCVS PLRQDPPRSF FFHLCRFCNV  
 EPPAASLRAG ARLSLGLVLA FVLAALLGAR PERWAAAAAG LRTLLSACSL SLSPLFSIAC  
 AFFFLTCLT RAQRGPGRGA GSWWLLALPA CCYLGDFAAW QWWSWLRGEP AAAGRLLCLVL  
 SCVGLLTLAP RVRLRHGVLV LLFAGLVWWV SFSGLGALPP ALRPLLSCLV GGAGCLLALG  
 LDHFFHVRGA SPPPRSASTA EEKVPVIRPR RRSSCVSLGE SAAGYYGSGK MFRRPSLPCI  
 SREQMILWDW DLKQWCKPHY QNSGGGNGVD LSVLNEARNM VSDLLIDPSL PPQVISSLRS  
 ISSLMGAFSG SCRPKINSFT PFPGFYPCSE VEDPVEKGDR KLHKGLSGRT SFPTPQLRRS  
 SGASSLLTNE HCSRWDRSSG KRSYQELSVS SHGCHLNGPF SSNLFTIPKQ RSSSVSLTHH  
 AGLRRAGALP SHSLLNSSSH VPSAGSLTN RSPIGFPDIT DFLTKPNIIL HRSLGVSVA  
 ADFHQYLRNS DSNLCSSCGH QILKYVSTCE PDGTDHPSEK SGEEDSSVFS KEPLNIVETQ  
 EEETMKKACR ELFLEGDSL MEEAQPNID QEVSLDPLMV EDYDSLIEKM NNWNFQIFEL  
 VEKMGESGR ILSQVMYTLF QDTGLLETFK IPTQEFMNYF RALENGYRDI PYHNRVHATD

VLHAVWYLTT RPIGPLQIH NNHETETKAD SDGRLGSGQI AYISSKSCCI PDMSYGCLSS  
NIPALELMAL YVAAAMHDYD HPGRTNAFLV ATNAPQAVLY NDRSVLENHH AASAWNLYLS  
RPEYNFLNL DHMEFKRFRF LVIEAILATD LKKHFDFLAE FNAKANDVNS NGIEWSSSEND  
RLLVCQVCIK LADINGPAKD RDLHLRWTEG IVNEFYEQGD EEAALGLPIS PFMDRSSPQL  
AKLQESFITH IVGPLCNSYD AAGLLPGQWI ETEEGDDTES DDDDDDDDDGD GGEELDSDE  
ETEDNLNPKP QRRKGRRRIF CQLMHHLTEN HKIWKEIEE EEEKCKAEGN KLQVDNASLP  
QADEIQVIEE ADEEEEQMFE

**Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.**

---

### Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Pde3b Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

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.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

---

### Purification:

Three step purification of membrane proteins expressed in baculovirus infected SF9 insect cells:

1. Membrane proteins are fractionated by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot.
2. The best performing detergent is used for solubilization and the proteins are purified via their

## Product Details

---

rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot.

3. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatograph. Eluate fractions are analyzed by SDS-PAGE and Western blot.

---

Purity: >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

---

Sterility: 0.22 µm filtered

---

Endotoxin Level: Protein is endotoxin-free.

---

Grade: Crystallography grade

## Target Details

---

Target: PDE3B

---

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

---

Background: Cyclic nucleotide phosphodiesterase with a dual-specificity for the second messengers cAMP and cGMP, which are key regulators of many important physiological processes. May play a role in fat metabolism. Regulates cAMP binding of RAPGEF3. Through simultaneous binding to RAPGEF3 and PIK3R6 assembles a signaling complex in which the PI3K gamma complex is activated by RAPGEF3 and which is involved in angiogenesis (By similarity). {ECO:0000250}.

---

Molecular Weight: 123.3 kDa Including tag.

---

UniProt: [Q61409](#)

---

Pathways: [Negative Regulation of Hormone Secretion, Carbohydrate Homeostasis, 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.

---

Comment: Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

---

Restrictions: For Research Use only

## Handling

---

Format:	Liquid
Buffer:	100 mM NaCl, 20 mM Hepes, 10% glycerol. pH value 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:	Unlimited (if stored properly)

## Images

---



**Image 1.** „Crystallography Grade“ protein due to multi-step, protein-specific purification process