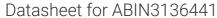
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PDE5A Protein (AA 1-865) (His tag)





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Overview

Quantity:	1 mg
Target:	PDE5A
Protein Characteristics:	AA 1-865
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PDE5A protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:

MERAGPNSVR SQQQRDPDWV EAWLDDHRDF TFSYFIRKAT RDMVNAWFSE RVHNIPVCKE
GIRAHTESCS CSLQQSPHAD NTTPGAPARK ISASEFDRPL RPIVVKDSEG TVSFLSDSGK
KEQMPLTPPR FDSDEGDQCS RLLELVKDIS SHLDVTALCH KIFLHIHGLI SADRYSLFLV
CEDSSKDKFL ISRLFDVAEG STLEEASNNC IRLEWNKGIV GHVAAFGEPL NIKDAYEDPR
FNAEVDQITG YKTQSILCMP IKNHREEVVG VAQAINKKSG NGGTFTEKDE KDFAAYLAFC
GIVLHNAQLY ETSLLENKRN QVLLDLASLI FEEQQSLEVI LKKIAATIIS FMQVQKCTIF IVDEDCPDSF
SRVFHMECEE VGKPSDPLTR EQDANKINYM YAQYVKNTME PLNIPDVTKD KRFPWTNENM
GHVNTPCIGS LLCTPIKNGK KNKVIGVCQL VNKMEENTGK IKAFNQNDEQ FLEAFVIFCG
LGIQNTQMYE AVERAMAKQM VTLEVLSYHA SAAEEETREL QALSAAVVPS AQTLKITDFS
FSDFELSDLE TALCTIRMFT DLNLVQNFQM KHEVLCRWIL SVKKNYRKNV AYHNWRHAFN
TAQCMFAALK AGKIQNKLTD LETLALLIAA LSHDLDHRGV NNSYIQRSEH PLAQLYCHSI
MEHHHFDQCL MILNSPGNQI LSGLSIDEYK TTLKIIKQAI LATDLALYIK RRGEFFELIR

KNQFSFEDPL QKELFLAMLM TACDLSAITK PWPIQQRIAE LVAAEFFDQG DRERKELNME PADLMNREKK NKIPSMQVGF IDAICLQLYE ALTHVSEDCL PLLDGCRKNR QKWQALAEQQ EKMLLNGESS OGKRD

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 Pde5a 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 receival 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:

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

- 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
- Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. 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

Product Details	
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade
Target Details	
Target:	PDE5A
Alternative Name:	Pde5a (PDE5A Products)
Background:	Plays a role in signal transduction by regulating the intracellular concentration of cyclic nucleotides. This phosphodiesterase catalyzes the specific hydrolysis of cGMP to 5'-GMP. Specifically regulates nitric-oxide-generated cGMP. {ECO:0000250 UniProtKB:076074}.
Molecular Weight:	99.4 kDa Including tag.
UniProt:	Q8CG03
Pathways:	Regulation of G-Protein Coupled Receptor Protein Signaling
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 gurantee 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.

Unlimited (if stored properly)

Expiry Date:



Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process