

Datasheet for ABIN7564563
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:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PDE5A protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Pde5a Protein expressed in mammalian cells.
Sequence:	<p>MERAGPNSVR SQQQRDPDWV EAWLDDHRDF TFSYFIRKAT RDMVNAWFSE RVHNIPVCKE</p> <p>GIRAHTESCS CSLQQSPHAD NTPPGAPARK ISASEFDRPL RPIVVKDSEG TVSFLSDSGK</p> <p>KEQMPLTPPR FDSDEGDQCS RLLELVKDIS SHLDVTALCH KIFLHIHGLI SADRYSLFLV</p> <p>CEDSSKDKFL ISRLFDVAEG STLEEASNNC IRLEWNKGIV GHVAAFGEPL NIKDAYEDPR</p> <p>FNAEVDQITG YKTQSILCMP IKNHREEVVG VAQAINKKSG NGGTFTEKDE KDFAYLAFC</p> <p>GIVLHNAQLY ETSLLLENKRN QVLLDLASLI FEEQSLEVI LKKIAATIIS FMQVQKCTIF IVDDECPDSF</p> <p>SRVFHMECEE VGKPSDPLTR EQDANKINYM YAQYVKNTME PLNIPDVTKD KRFPWTNENM</p> <p>GHVNTPCIGS LLCTPIKNGK KNKVIGVCQL VNKMEENTGK IKAFNQNDEQ FLEAFVIFCG</p> <p>LGIQNTQMYE AVERAMAKQM VTLEVL SYHA SAAEEETREL QALSAAVVPS AQTLKITDFS</p> <p>FSEFELSDLE TALCTIRMFT DLNLVQNFQM KHEVLCRWIL SVKKNYRKNV AYHNWRHAFN</p> <p>TAQCMFAALK AGKIQNKLTDL LTLALLIAA LSHDLDRGV NNSYIQRSEH PLAQLYCHSI</p>

MEHHHFDQCL MILNSPGNQI LSGLSIDEYK TTLKIIKQAI LATDLALYIK RRGEFFELIR
KNQFSFEDPL QKELFLAMLM TACDLSAITK PWPIQQRIAE LVAAEFFDQG DRERKELNME
PADLMNREKK NKIPSMQVGF IDAICLQLYE ALTHVSEDCL PLLDGCRKNR QKWQALAEQQ
EKMLLNGESS QGKRD **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>
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Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
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Grade:	custom-made
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Target Details

Target:	PDE5A
Alternative Name:	Pde5a (PDE5A Products)
Background:	<p>CGMP-specific 3',5'-cyclic phosphodiesterase (EC 3.1.4.35) (cGMP-binding cGMP-specific phosphodiesterase) (CGB-PDE),FUNCTION: 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:O76074}.</p>
Molecular Weight:	98.4 kDa

Target Details

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 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