

Datasheet for ABIN7557831
PDE1C Protein (AA 1-706) (His tag)



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Overview

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| Quantity: | 1 mg |
| Target: | PDE1C |
| Protein Characteristics: | AA 1-706 |
| Origin: | Mouse |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This PDE1C protein is labelled with His tag. |
| Application: | Western Blotting (WB), SDS-PAGE (SDS) |

Product Details

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| Purpose: | Custom-made recombinat Pde1c Protein expressed in mammalian cells. |
| Sequence: | <p>MESPTKEIEE FESNSLKLHLQ PEQIEKIWLR LRGLRKYKKT SQRLRSLVKQ LERGEASVVD</p> <p>LKKNLEYAAT VLESVIDET RRLDTEDEL SDIQSDAVPS EVRDWLASTF TRQMGMMLRR</p> <p>SDEKPRFKSI VHAVQAGIFV ERMYYRRTSNM VGLSYPPAVI DALKDVDTWS FDFVSLNEAS</p> <p>GDHALKFIFY ELLTRYDLIS RFKIPISALV SFVEALEVGY SKHKNPYHNL MHAADVTQTV</p> <p>HYLLYKTGVA NWLTELEIFA IIFSAAIHDY EHTGTTNNFH IQTRSDPAIL YNDRSVLENH</p> <p>HLSAAYRLLQ EDEEMNILVN LSKDDWREFR TLVIEMVMAT DMSCHFQQIK AMKTALQQPE</p> <p>AIEKPKALSL MLHTADISHP AKAWDLHHRW TMSLLEEFFR QGDREAELGL PFSPLCDRKS</p> <p>TMVAQSQVGF IDFIVEPTFT VLTDMTEKIV SPLIDESSQT GGTGQRRSSL NSINSSDAKR</p> <p>SGVKSSGSDG SAPINNSVIP VDYKSFKATW TEVVQINRER WRKVPKEEK AKKEAEEKAR</p> <p>LAAEEKQKEM EAKSQAEQGT TSKGEKKTSG EAKSQVNGTR KGDNPRGKNS KGEKAGEKQQ</p> <p>NGDLKDGKNK ADKKDHSNTG NESKKTDGTK KRSHGSPAPS TSSTSRTLP VIKPLRHFHK</p> |

RPAYASSSYA PSVPKKTDDH PVRVKMLDQR IKMKKIQNIS HHWNKK **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:

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, Western Blot

Grade:

custom-made

Target Details

Target:

PDE1C

Alternative Name:

Pde1c ([PDE1C Products](#))

Background:

Dual specificity calcium/calmodulin-dependent 3',5'-cyclic nucleotide phosphodiesterase 1C (Cam-PDE 1C) (EC 3.1.4.17), FUNCTION: Calmodulin-dependent cyclic nucleotide phosphodiesterase with a dual specificity for cAMP and cGMP, which are key regulators of many important physiological processes (PubMed:8810348). Exhibits high affinity for both cAMP and cGMP (By similarity). Modulates the amplitude and duration of the cAMP signal in sensory cilia in response to odorant stimulation, hence contributing to the generation of action potentials. Regulates smooth muscle cell proliferation. Regulates the stability of growth factor receptors, including PDGFRB (Probable). {ECO:0000250|UniProtKB:Q14123, ECO:0000269|PubMed:8810348, ECO:0000305|PubMed:29860631}.

Target Details

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| Molecular Weight: | 80.3 kDa |
| UniProt: | Q64338 |
| Pathways: | EGFR Signaling Pathway , Neurotrophin Signaling Pathway , Negative Regulation of Hormone Secretion , cAMP Metabolic Process , G-protein mediated Events , Interaction of EGFR with phospholipase C-gamma |

Application Details

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| 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

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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 |