

Datasheet for ABIN7550803
PLCD1 Protein (AA 1-756) (His tag)



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Overview

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| Quantity: | 1 mg |
| Target: | PLCD1 |
| Protein Characteristics: | AA 1-756 |
| Origin: | Human |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This PLCD1 protein is labelled with His tag. |
| Application: | Western Blotting (WB), SDS-PAGE (SDS) |

Product Details

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| Purpose: | Custom-made recombinat PLCD1 Protein expressed in mammalian cells. |
| Sequence: | <p>MDSGRDFLT L HGLQDDEDLQ ALLKGSQLLK VKSSSWRRER FYKLQEDCKT IWQESRKVMR</p> <p>TPESQLFSIE DIQEVRMGHR TEGLEKFARD VPEDRCFSIV FKDQRNTLDL IAPSPADAQH</p> <p>WVLGLHKIIH HSGSMDQRQK LQHWIHSCLR KADKNKDNKM SFKELQNFLK ELNIQVDDSY</p> <p>ARKIFRECDH SQTDSLEDEE IEAFYKMLTQ RVEIDRTFAE AAGSGETLSV DQLVTFLQHQ</p> <p>QREEAAGPAL ALSLIERYEP SETAKAQRQM TKDGFLMYLL SADGSAFSLA HRRVYQDMGQ</p> <p>PLSHYLVSSS HNTYLLLEDQL AGPSSTEAYI RALCKGCRCL ELDCWDGPNQ EPIIYHGYTF</p> <p>TSKILFCDVL RAIRDYAFKA SPYPVILSLE NHCTLEQQRV MARHLHAILG PMLLNRPDLG</p> <p>VTNSLPSEQ LKGKILLKGK KLGGLLPPEG EGGPEATVVS DEDEAAEMED EAVRSRVQHK</p> <p>PKEDKLRLAQ ELSDMVIYCK SVHFGGFSSP GTPGQAFYEM ASFSENRLR LLQESGNGFV</p> <p>RHNVGHLSRI YPAGWRTDSS NYSPVEMWNG GCQIVALNFQ TPGPEMDVYQ GRFQDNGACG</p> <p>YVLKPAFLRD PNGTFNPRAL AQGPWWARKR LNIRVISGQQ LPKVNKNKNS IVDPKVTVEI</p> |

HGVSRDVASR QTAVITNNGF NPWWDEFAF EVVVPDLALI RFLVEDYDAS SKNDFIGQST
IPLNSLKQGY RHHVHLSKNG DQHPSATLFV KISLQD **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.**

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| 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

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| Target: | PLCD1 |
| Alternative Name: | PLCD1 (PLCD1 Products) |
| Background: | <p>1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase delta-1 (EC 3.1.4.11) (Phosphoinositide phospholipase C-delta-1) (Phospholipase C-III) (PLC-III) (Phospholipase C-delta-1) (PLC-delta-1),FUNCTION: The production of the second messenger molecules diacylglycerol (DAG) and inositol 1,4,5-trisphosphate (IP3) is mediated by activated phosphatidylinositol-specific phospholipase C enzymes (PubMed:9188725). Essential for trophoblast and placental development (By similarity). Binds phosphatidylinositol 4,5-bisphosphate (PubMed:7890667, PubMed:9188725). {ECO:0000250 UniProtKB:Q8R3B1, ECO:0000269 PubMed:7890667, ECO:0000269 PubMed:9188725}.</p> |

Target Details

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| Molecular Weight: | 85.7 kDa |
| UniProt: | P51178 |
| Pathways: | WNT Signaling , Myometrial Relaxation and Contraction , Regulation of Carbohydrate Metabolic Process |

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 |