Datasheet for ABIN7554982

# PLSCR1 Protein (AA 1-318) (His tag)

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## Overview

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| Quantity: | 1 mg |
| Target: | PLSCR1 |
| Protein Characteristics: | AA 1-318 |
| Origin: | Human |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This PLSCR1 protein is labelled with His tag. |

## Product Details

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| Purpose: | Custom-made recombinant PLSCR1 Protein expressed in mammalian cells. |
| Sequence: | MDKQNSQMNA SHPETNLPVG YPPQYPPTAF QGPPGYSGYP GPQVSYPPPP AGHSGPGPAG FPVPNQPVYN QPVYNQPVGA AGVPWMPAPQ PPLNCPPGLE YLSQIDQILI HQQIELLEVL TGFETNNKYE IKNSFGQRVY FAAEDTDCCT RNCCGPSRPF TLRIIDNMGQ EVITLERPLR CSSCCCPCCL QEIEIQAPPG VPIGYVIQTW HPCLPKFTIQ NEKREDVLKI SGPCVVCSCC GDVDFEIKSL DEQCVVGKIS KHWTGILREA FTDADNFGIQ FPLDLDVKMK AVMIGACFLI DFMFFESTGS QEQKSGVW **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.** |
| Specificity: | If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer. |
| Characteristics: | Key Benefits: |

## Product Details

- 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.

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| Purity: | > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC) |
| Grade: | custom-made |

## Target Details

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| Target: | PLSCR1 |
| Alternative Name: | PLSCR1 (PLSCR1 Products) |
| Background: | Phospholipid scramblase 1 (PL scramblase 1) (Ca(2+)-dependent phospholipid scramblase 1) (Erythrocyte phospholipid scramblase) (Mg(2+)-dependent nuclease) (EC 3.1.-.-) (MmTRA1b),FUNCTION: Catalyzes calcium-induced ATP-independent rapid bidirectional and non-specific movement of phospholipids (lipid scrambling or lipid flip-flop) between the inner and outer leaflet of the plasma membrane resulting in collapse of the phospholipid asymmetry which leads to phosphatidylserine externalization on the cell surface (PubMed:9218461, PubMed:8663431, PubMed:10770950, PubMed:9572851, PubMed:9485382, PubMed:18629440, PubMed:23590222, PubMed:24648509, PubMed:24343571, PubMed:32110987, PubMed:23659204, PubMed:29748552). Mediates calcium-dependent phosphatidylserine externalization and apoptosis in neurons via its association with TRPC5 (By similarity). Also exhibits magnesium-dependent nuclease activity against double-stranded DNA and RNA but not single-stranded DNA and can enhance DNA decatenation mediated by TOP2A (PubMed:27206388, PubMed:17567603). Negatively regulates FcR-mediated phagocytosis in differentiated macrophages (PubMed:26745724). May contribute to cytokine-regulated cell |

## Target Details

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| | proliferation and differentiation (By similarity). May play a role in the antiviral response of interferon (IFN) by amplifying and enhancing the IFN response through increased expression of select subset of potent antiviral genes (PubMed:15308695). Inhibits the functions of viral transactivators, including human T-cell leukemia virus (HTLV)-1 protein Tax, human immunodeficiency virus (HIV)-1 Tat, human hepatitis B virus (HBV) HBx, Epstein-Barr virus (EBV) BZLF1 and human cytomegalovirus IE1 and IE2 proteins through direct interactions (PubMed:22789739, PubMed:31434743, PubMed:25365352, PubMed:23501106, PubMed:35138119). Mediates also the inhibition of influenza virus infection by preventing nuclear import of the viral nucleoprotein/NP (PubMed:29352288, PubMed:35595813). Plays a crucial role as a defense factor against SARS-CoV-2 independently of its scramblase activity by directly targeting nascent viral vesicles to prevent virus-membrane fusion and the release of viral RNA into the host-cell cytosol (PubMed:37438530). {ECO:0000250\|UniProtKB:Q9JJ00, ECO:0000269\|PubMed:10770950, ECO:0000269\|PubMed:15308695, ECO:0000269\|PubMed:17567603, ECO:0000269\|PubMed:18629440, ECO:0000269\|PubMed:21806988, ECO:0000269\|PubMed:22789739, ECO:0000269\|PubMed:23501106, ECO:0000269\|PubMed:23590222, ECO:0000269\|PubMed:23659204, ECO:0000269\|PubMed:24343571, ECO:0000269\|PubMed:24648509, ECO:0000269\|PubMed:25365352, ECO:0000269\|PubMed:26745724, ECO:0000269\|PubMed:27206388, ECO:0000269\|PubMed:29748552, ECO:0000269\|PubMed:31434743, ECO:0000269\|PubMed:32110987, ECO:0000269\|PubMed:35138119, ECO:0000269\|PubMed:37438530, ECO:0000269\|PubMed:8663431, ECO:0000269\|PubMed:9218461, ECO:0000269\|PubMed:9485382, ECO:0000269\|PubMed:9572851}., FUNCTION: (Microbial infection) Acts as an attachment receptor for HCV. {ECO:0000269\|PubMed:21806988}. |
| Molecular Weight: | 35.0 kDa |
| UniProt: | O15162 |
| Pathways: | Cellular Response to Molecule of Bacterial Origin |

## Application Details

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| Application Notes: | We expect the protein to work for functional studies. 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 |