

# Recombinant Human phospholipid scramblase 1, His-tagged

**Cat. No.** PLSCR1-354H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | PLSCR1, 1-288aa, Human, His tag, E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>ProteinLength</b>    | 1-288 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>      | Phospholipid scramblase 1, also known as PLSCR1, 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. This protein may contribute to cytokine-regulated cell proliferation and differentiation. Recombinant human PLSCR1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques. |
| <b>Form</b>             | Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 30% glycerol, 1mM DTT                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Molecular Mass</b>   | 33.8 kDa (308aa) confirmed by MALDI-TOF                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>AA Sequence</b>      | MGSSHHHHHH SSGLVPRGSH MDKQNSQMNA SHPETNLPVG YPPQYPPTAF<br>QGPPGYSGYP GPQVSYPPPP AGHSGPGPAG FVPVNQPVYN QPVYNQPVGA<br>AGVPWMPAPQ PPLNCPPGLE YLSQIDQILI HQQIELLEVL TGFETNNKYE<br>IKNSFGQRVY FAAEDTDCCT RNCCGPSRPF TLRIIDNMGQ EVITLERPLR<br>CSSCCPCCL QEIEIQAPPG VPIGYVIQTW HPCLPKFTIQ NEKREDVLKI                                                                                                                                                                                          |

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|                      |                                                                                                                                                    |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
|                      | SGPCVVCSCC GDVDFEIKSL DEQCVVGKIS KHWTGILREA FTDADNFGIQ<br>FPLDLVDK                                                                                 |
| <b>Purity</b>        | >90% by SDS - PAGE                                                                                                                                 |
| <b>Storage</b>       | Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles. |
| <b>Concentration</b> | 0.5 mg/ml (determined by Bradford assay)                                                                                                           |

## GENE INFORMATION

|                            |                                                                                                                                               |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | PLSCR1 phospholipid scramblase 1 [ Homo sapiens ]                                                                                             |
| <b>Official Symbol</b>     | PLSCR1                                                                                                                                        |
| <b>Synonyms</b>            | PLSCR1; phospholipid scramblase 1; MMTRA1B; PL scramblase 1; erythrocyte phospholipid scramblase; ca(2+)-dependent phospholipid scramblase 1; |
| <b>Gene ID</b>             | 5359                                                                                                                                          |
| <b>mRNA Refseq</b>         | NM_021105                                                                                                                                     |
| <b>Protein Refseq</b>      | NP_066928                                                                                                                                     |
| <b>MIM</b>                 | 604170                                                                                                                                        |
| <b>UniProt ID</b>          | O15162                                                                                                                                        |
| <b>Chromosome Location</b> | 3q23                                                                                                                                          |

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|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Pathway</b>  | EGFR1 Signaling Pathway, organism-specific biosystem;                                                                                                                                                                                                           |
| <b>Function</b> | CD4 receptor binding; RNA polymerase II core promoter proximal region sequence-specific DNA binding transcription factor activity involved in positive regulation of transcription; SH3 domain binding; calcium ion binding; calcium ion binding; enzyme bindin |

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