# Recombinant PLS5 protein (His tag)

| | |
|---|---|
| **Catalog Number** | 551906 |
| **Species** | Human |
| **Expression System** | E. coli |
| **Accession** | A0PG75 |
| **Molecular Weight** | Predictes a molecular mass of 26.15 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 26 kDa band. |

## Product Information

| | |
|---|---|
| **Sequence Region** | 54-271 |
| **Form** | Lyophilized powder |
| **Formulation** | Lyophilized from sterile PBS, pH 7.4 |
| **Purity** | >89%, by SDS-PAGE with Coomassie Brilliant Blue staining. |
| **Endotoxin** | Not tested. |
| **Activity** | Not tested. |
| **Stability** | Samples are stable for up to twelve months from date of receipt at -70℃ |
| **Protein Construction** | DNA encoding 54-271 aa (A0PG75) were fused with 6His tag. |

## Storage & Handling

| | |
|---|---|
| **Reconstitution** | Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. |
| **Storage** | Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. |
| **Shipping** | In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature.<br>Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise. |

## Description

| | |
|---|---|
| **Description** | This product is a high-quality recombinant protein fragment of human Phospholipid scramblase family member 5 (PLSCR5), encompassing amino acids 54-271. This 218-amino acid fragment has been computationally designed for optimal stability and solubility, making it an ideal reagent for structural studies, biochemical characterization, and functional assays in lipid biology research.<br>Phospholipid scramblase family member 5 (PLSCR5) is encoded by the PLSCR5 gene in Homo sapiens. As a member of the phospholipid scramblase family, it is implicated in the regulation of phospholipid distribution across cellular membranes, a critical process in cell signaling, apoptosis, and blood coagulation. The specific biological functions and subcellular localization of the full-length PLSCR5 protein are areas of active research. The provided recombinant fragment represents a stable, soluble unit selected to facilitate experimental investigation into the protein's structure and mechanistic properties. |