

# Human PLA2G1B Protein

Cat. No. PLA-HM11B

## Description

<b>Source</b>	Recombinant Human PLA2G1B Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Ala23-Ser148.
<b>Accession</b>	P04054
<b>Molecular Weight</b>	The protein has a predicted MW of 15.23 kDa. Due to glycosylation, the protein migrates to 18-23 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per $\mu\text{g}$ by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

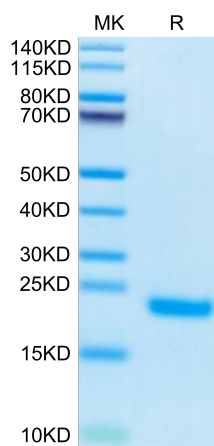
<b>Formulation</b>	Lyophilized from 0.22 $\mu\text{m}$ filtered solution in 10mM Tris, 5mM CaCl <sub>2</sub> (pH 8.0). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

Phospholipase A<sub>2</sub> (PLA<sub>2</sub>) plays crucial roles in diverse cellular responses, including phospholipid digestion and metabolism, host defense and signal transduction. PLA<sub>2</sub> provides precursors for generation of eicosanoids, such as prostaglandins (PGs) and leukotrienes (LTs), when the cleaved fatty acid is arachidonic acid, platelet-activating factor (PAF) when the sn-1 position of the phosphatidylcholine contains an alkyl ether linkage and some bioactive lysophospholipids, such as lysophosphatidic acid (lysoPA).

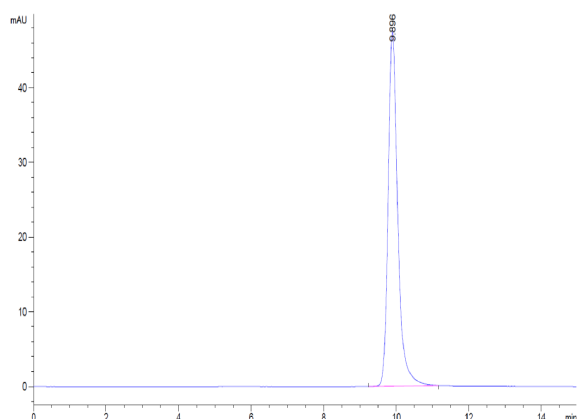
## Assay Data

### Bis-Tris PAGE



Human PLA2G1B on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC



The purity of Human PLA2G1B is greater than 95% as determined by SEC-HPLC.