

# Human PLD4 Protein

Cat. No. PLD-HM104

## Description

<b>Source</b>	Recombinant Human PLD4 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Trp52-Gly506.
<b>Accession</b>	Q96BZ4
<b>Molecular Weight</b>	The protein has a predicted MW of 51.1 kDa. Due to glycosylation, the protein migrates to 68-75 kDa based on Tris-Bis PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

## Formulation and Storage

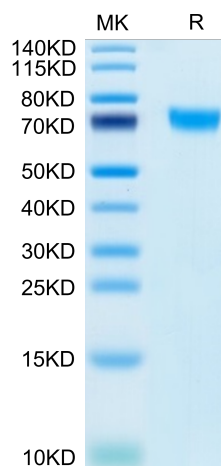
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in 50mM MES, 100mM NaCl (pH 6.0). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in 50mM MES, 100mM NaCl (pH 6.0).
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

Phospholipase D4 (PLD4) is a newly identified protein expressed in microglia. the expression of PLD4 was located in macrophages in the colon cancer mesenchymal and lymph nodes as shown by immunohistochemical analysis. furthermore, its expression was associated with clinical staging of colon cancer. Then, THP-1 as a cell model induced into TAMs. PLD4 could be involved in the activation process of M1 phenotype macrophages.

## Assay Data

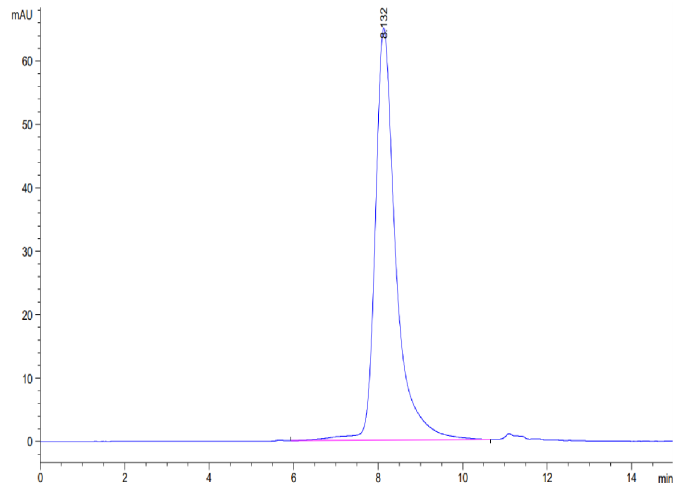
### Tris-Bis PAGE



Human PLD4 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

Assay Data



The purity of Human PLD4 is greater than 95% as determined by SEC-HPLC.