

# Recombinant Mouse Pla2g10 Protein, Myc/DDK-tagged

**Cat. No.** Pla2g10-4894M    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Purified recombinant protein of mouse full-length phospholipase A2, group X (cDNA clone MGC:25894 IMAGE:4218273), complete cds, with C-terminal MYC/DDK tag, expressed in HEK293T cells.
<b>Species</b>	Mouse
<b>Source</b>	HEK293
<b>Description</b>	This gene encodes a member of the phospholipase A2 family of lipolytic enzymes that hydrolyzes glycerophospholipids to produce free fatty acids and lysophospholipids. The encoded protein undergoes proteolytic processing to generate a calcium-dependent enzyme that plays pivotal roles in the liberation of arachidonic acid from membrane phospholipids leading to the production of various inflammatory lipid mediators, such as prostaglandins. In response to myocardial ischemia/reperfusion, mice lacking the encoded protein display a reduction in myocardial infarct size partly through the suppression of neutrophil cytotoxic activities. Alternative splicing results in multiple transcript variants encoding different isoforms. All of these isoforms may undergo similar processing to generate the mature protein.
<b>Molecular Mass</b>	16.2 kDa
<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Stability</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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<b>Storage</b>	Store at -80 centigrade after receiving vials.
<b>Concentration</b>	>50 µg/mL as determined by microplate BCA method
<b>Storage Buffer</b>	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

## GENE INFORMATION

<b>Gene Name</b>	Pla2g10 phospholipase A2, group X [ <i>Mus musculus</i> (house mouse) ]
<b>Official Symbol</b>	Pla2g10
<b>Synonyms</b>	Pla2g10; phospholipase A2, group X; PLA; mGXs; PLA2GX; sPLA2-X; GX sPLA2; group 10 secretory phospholipase A2; group X secretory phospholipase A2; phosphatidylcholine 2-acylhydrolase 10; EC 3.1.1.4
<b>Gene ID</b>	26565
<b>mRNA Refseq</b>	NM_011987
<b>Protein Refseq</b>	NP_036117
<b>UniProt ID</b>	Q9QXX3

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