

Recombinant Mouse Pla2g10 Protein, Myc/DDK-tagged

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

SPECIFICATION

Product Overview	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.
Species	Mouse
Source	HEK293
Description	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.
Molecular Mass	16.2 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	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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Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
GENE INFORMATION	
Gene Name	Pla2g10 phospholipase A2, group X [Mus musculus (house mouse)]
Official Symbol	Pla2g10
Synonyms	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
Gene ID	26565
mRNA Refseq	NM_011987
Protein Refseq	NP_036117
UniProt ID	Q9QXX3