Recombinant Mouse Pla2g4a Protein, Myc/DDK-tagged

Cat. No. Pla2g4a-4901M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length phospholipase A2, group IVA (cytosolic, calcium-dependent) (Pla2g4a), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	The protein encoded by this gene is a member of the phospholipase A2 group IV family. This enzyme hydrolyzes membrane phospholipids, thereby releasing the polyunsaturated fatty acid, arachidonic acid. Arachidonic acid is further metabolized into eicosanoids such as leukotrienes, thromboxanes and prostaglandins, that play important roles in regulating diverse biological processes such as inflammatory responses, membrane and actin dynamics, and tumorigenesis. A rise in intracellular calcium levels results in binding of calcium to the C2 domain of this protein, and triggers the translocation from the cytosol to intracellular membranes, including the Golgi apparatus. Disruption of this gene in mice led to decreased levels of eicosonaoids and platelet-activating factor, decreased allergic symptoms, and impaired reproductive ability in females. Alternative splicing results in multiple transcript variants encoding different isoforms.
Molecular Mass	85.7 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

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Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
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	Pla2g4a phospholipase A2, group IVA (cytosolic, calcium-dependent) [Mus musculus (house mouse)]
Official Symbol	Pla2g4a
Synonyms	PLA2G4A; phospholipase A2, group IVA (cytosolic, calcium-dependent); cytosolic phospholipase A2; cPLA2-alpha; Type IV PLA2; cytosolic PLA2; phospholipase A2, group 4; phospholipase A2 group IVA; Cytosolic phospholipase A2 (CPLA2); cPLA2; Pla2g4; cPLA2alpha
Gene ID	18783
mRNA Refseq	NM_008869
Protein Refseq	NP_032895
UniProt ID	P47713

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