Recombinant Mouse PLA2G4A Protein, His-tagged

Cat. No. PLA2G4A-12895M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse PLA2G4A Protein (1-178aa) was expressed in E. coli with N-terminal His Tag.
Species	Mouse
Source	E.coli
ProteinLength	1-178 a.a.
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.
Form	Liquid
Endotoxin	<1.0EU per 1μg (determined by the LAL method)

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Purity	> 97%
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.

GENE INFORMATION

Gene Name	Pla2g4a phospholipase A2, group IVA (cytosolic, calcium-dependent) [Mus musculus (house mouse)]
Official Symbol	PLA2G4A
Synonyms	cPLA2; Pla2g4; cPLA2alpha; cPLA2-alpha
Gene ID	18783
mRNA Refseq	NM_008869.4
Protein Refseq	NP_032895.1
UniProt ID	P47713

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