

Recombinant Human PLA2G4A Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PLA2G4A-6078H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PLA2G4A MS Standard C13 and N15-labeled recombinant protein (NP_077734) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a member of the cytosolic phospholipase A2 group IV family. The enzyme catalyzes the hydrolysis of membrane phospholipids to release arachidonic acid which is subsequently metabolized into eicosanoids. Eicosanoids, including prostaglandins and leukotrienes, are lipid-based cellular hormones that regulate hemodynamics, inflammatory responses, and other intracellular pathways. The hydrolysis reaction also produces lysophospholipids that are converted into platelet-activating factor. The enzyme is activated by increased intracellular Ca(2+) levels and phosphorylation, resulting in its translocation from the cytosol and nucleus to perinuclear membrane vesicles. Alternative splicing results in multiple transcript variants.
Molecular Mass	85 kDa
AA Sequence	MSFIDPYQHIIVEHQYSHKFTVVVLRATKVTKGAFGDMLDTPDPYVELFISTTPDSRK RTRHFNNDINPVWNETFEFILDPNQENVLEITLMDANYVMDETLGTATFTVSSMKVG EKKEVPFIFNQVTEMVLEMSLEVCSCPDLRFSMALCDQEKTRQQRKEHIRESMKK

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

LLGPKNSEGLHSARDVPVVAILGSGGGFRAMVGFSGVMKALYESGILDCATYVAGL
 SGSTWYMSTLYSHPDFPEKGPPEEINEELMKNVSHNPLLLLTPQKVKRYVESLWKKK
 SSGQPVTFTDIFGMLIGETLIHNRMNNTLSSLKEKVNTAQCPPLFTCLHVKPDVSEL
 MFADWVEFSPYEIGMAKYGTFMAPDLFGSKFFMGTVVKKYEENPLHFLMGVWGSA
 FSILFNRVLGVSGSQSRGSTMEELENITTKHIVSNDSSDSDDESHEPKGTENEDAG
 SDYQSDNQASWIHRMIMALVSDSALFNTREGRAGKVHNFMLGLNLNTSYPLSPLSD
 FATQDSFDDDELDAAVADPDEFERIYEPLDVKSKKIHVVDSGLTFNLPYPLILRPQRG
 VDLIISFDFSARPSDSSPPFKELLAEKWAKMNKLPFPKIDPYVFDREGLKECYVFKP
 KNPDMEKDCPTIIHFVLANINFRKYKAPGVPRETEEEKEIADFDIFDDPESPFSTFNQ
 YPNQAFKRLHDLMHFNTLNNIDVIKEAMVESIEYRRQNPSRCSVLSLSNVEARRFFNK
 EFLSKPKATRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name PLA2G4A phospholipase A2 group IVA [Homo sapiens (human)]

Official Symbol PLA2G4A

Synonyms PLA2G4A; phospholipase A2, group IVA (cytosolic, calcium-dependent); PLA2G4; cytosolic phospholipase A2; cPLA2 alpha; cPLA2; lysophospholipase; phospholipase

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A2 group IVA; phosphatidylcholine 2-acylhydrolase; calcium-dependent phospholipid-binding protein; cPLA2-alpha; MGC126350;

Gene ID 5321

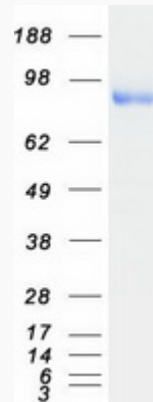
mRNA Refseq NM_024420

Protein Refseq NP_077734

MIM 600522

UniProt ID P47712

SDS-PAGE



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