

Active Recombinant Human PLA2G4A protein, FLAG/His-tagged

Cat. No. PLA2G4A-42H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PLA2G4A(aa 1-749) fused with FLAG/His tag at C-terminal was expressed in Insect cells.
Species	Human
Source	Insect Cells
ProteinLength	1-749 a.a.
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.
Form	40 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.2 mM KCl, 80 g/ml FLAG peptide, and 20% glycerol.
Bio-activity	>57 pmol/min/g

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

Molecular Mass	87 kDa
AA Sequence	MSFIDPYQHIIVEHQYSHKFTVVVLRATKVTKGAFGDMLDTPDPYVELFISTTPDSRK RTRHFNNNDINPVWNETF EFILDPNQENVLEITLMDANYVMDET LGTATFTVSSMKVG EKKEVPFIFNQVTEMVLEMSLEVCSCPDLRFSMA LCDQEKTFRQQRKEHIRESMKK LLGPKNSEGLHSARDVPVVAILGSGGGFRAMVGFSGVMKALYESGILDCATYV AGL SGSTWYMSTLYSHPDFPEKGPEEINEELMKNVSHNPLLLLTPQKV KRYVESLWKKK SSGQPVTFTDIFGML IGETLIHNRMNNTLSSLKEKVNTAQCPPLFTCLHVKPDVSEL MFADWVEFSPYEIGMAKYGTFMAPDLFGSKF FMGTVVKKYEENPLHFLMGVWGSA FSILFNRLVGLVSGSQSRGSTMEEELENITTKHIVSNDSSDSDDDESHEPKGT ENEDAG SDYQSDNQASWIHRMIMALVSDSALFNTREGRAGKVHNFMLGLNLNTSYPLSPLSD FATQDSFDDDEL DAAVADPDEFERIYEPLDVKSKKIHVVD SGLTFNLPYPLILRPQRG VDLIISFDFSARPSDSSPPFKELLAEK WAKMNKLPFPKIDPYVFDREGLKECYVFKP KNPDMEKDCPTIIHFVLANINFRKYKAPGVPRETEEEKEIADFDI FDDPESPFSTFNF QYPNQAFKRLHDLMHFNTLNNIDVIKEAMVESIEYRRQNPSRCSVSLSNVEARRFFN KEFL SKPKADYKDDDDKHHHHHH
Purity	> 87%
Storage	>6 months at –80 centigrade. Avoid freeze/thaw cycles.
GENE INFORMATION	
Gene Name	PLA2G4A phospholipase A2, group IVA (cytosolic, calcium-dependent) [Homo sapiens]
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
Chromosome Location	1q25
Pathway	ADP signalling through P2Y purinoceptor 1, organism-specific biosystem; Arachidonic acid metabolism, organism-specific biosystem; Arachidonic acid metabolism, conserved biosystem; Ca-dependent events, organism-specific biosystem; Endothelins, organism-specific biosystem; Ether lipid metabolism, organism-specific biosystem; Ether lipid metabolism, conserved biosystem;
Function	calcium ion binding; calcium-dependent phospholipase A2 activity; calcium-dependent phospholipid binding; hydrolase activity; lysophospholipase activity; phospholipase A2 activity; phospholipase A2 activity;