

# Recombinant Human Phospholipase A2, Group VII (platelet-activating factor acetylhydrolase, plasma), His-tagged

**Cat. No.** PLA2G7-1421H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	PLA2G7 Human Recombinant produced in E.Coli is single, a non-glycosylated, Polypeptide chain containing 420 amino acids fragment (22-441) having a total molecular mass of 52.29 kDa and fused with a 4.5 kDa amino-terminal hexahistidine tag. The PLA2G7 is purified by proprietary chromatographic techniques.
<b>Species</b>	Human
<b>Source</b>	Human
<b>ProteinLength</b>	22-441 a.a.
<b>Description</b>	PLA2G7 is a secreted enzyme which catalyzes the degradation of platelet-activating factor to biologically inactive products. The PLA2G7 enzyme is produced by inflammatory cells and hydrolyzes oxidised phospholipids in LDL. In the blood, PLA2G7 goes mainly with LDL and less than 20% is coupled with HDL. PLA2G7 is implicated in the development of atherosclerosis and is also a marker for cardiac disease. PLA2G7 might have a major physiologic effect in the presence of inflammatory bodily responses.
<b>Form</b>	PLA2G7 protein is supplied in 20 mM Tris-HCl pH-8.0, 1 mM EDTA and 50% glycerol.
<b>Purity</b>	Greater than 95.0% as determined by SDS-PAGE.
<b>Physical Appearance</b>	Sterile Filtered clear solution.

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

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

**Storage** Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Please avoid freeze thaw cycles.

## GENE INFORMATION

**Gene Name** PLA2G7 phospholipase A2, group VII (platelet-activating factor acetylhydrolase, plasma) [ Homo sapiens ]

**Official Symbol** PLA2G7

**Synonyms** PLA2G7; phospholipase A2, group VII (platelet-activating factor acetylhydrolase, plasma); PAFAH; LP-PLA2; LDL-PLA2; platelet-activating factor acetylhydrolase; LDL-PLA (2); gVIIA-PLA2; OTTHUMP00000016555; PAF 2-acylhydrolase; PAF acetylhydrolase; group-VIIA phospholipase A2; LDL-associated phospholipase A2; lipoprotein-associated phospholipase A2; 1-alkyl-2-acetyl-glycerophosphocholine esterase; 2-acetyl-1-alkyl-glycerophosphocholine esterase

**Gene ID** 7941

**mRNA Refseq** NM\_001168357

**Protein Refseq** NP\_001161829

**MIM** 601690

**UniProt ID** Q13093

**Chromosome Location** 6p21-p12

**Pathway** Diabetes pathways; Ether lipid metabolism; Lissencephaly gene (LIS1) in neuronal

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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



migration and development; Metabolic pathways; Synthesis, Secretion

**Function**

1-alkyl-2-acetyl-glycerophosphocholine esterase activity; calcium-independent phospholipase A2 activity; hydrolase activity; phospholipid binding

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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