

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

Cat. No. PLA2G7-687H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	PLA2G7, 47-441aa Human, His tag, E.coli
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	47-441 a.a.
<b>Description</b>	<p>PLA2G7(platelet-activating factor acetylhydrolase), also known as lipoprotein-associated phospholipase A2, is a phospholipase A2 enzyme. It is a secreted enzyme which catalyzes the degradation of platelet-activating factor to biologically inactive products. This protein 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. It is implicated in the development of atherosclerosis and is also a marker for cardiac disease. It might have a major physiologic effect in the presence of inflammatory bodily responses. Recombinant human PLA2G7 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.</p>
<b>Form</b>	Liquid. Phosphate Buffered Saline (pH7.4) containing 10% glycerol
<b>Molecular Mass</b>	47.2 kDa(418aa) confirmed by MALDI-TOF
<b>AA Sequence</b>	MGSSHHHHHH SSGLVPRGSH MGSAAASFGQ TKIPRGNGPY SVGCTDLMFD

 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

HTNKGTFRL YPSQDNDRL DTLWIPNKEY FWGLSKFLGT HWLMGNILRL  
 LFGSMTTPAN WNSPLRPGEK YPLVVFHSHGL GAFRTLYSAI GIDLASHGFI  
 VAAVEHRDRS ASATYYFKDQ SAAEIGDKSW LYLRTLKQEE ETHIRNEQVR  
 QRAKECSQAL SLILDIDHGK PVKNALDLKF DMEQLKDSID REKIAVIGHS  
 FGGATVIQTL SEDQRFRCGI ALDAWMFPLG DEVYSRIPQP LFFINSEYFQ  
 YPANIIMKK CYSPOKERKM ITIRGSVHQN FADFTFATGK IIGHMLKLG  
 DIDSNVAIDL SNKASLAFLQ KHLGLHKDFD QWDCLIEGDD ENLIPGTNIN  
 TTNQHIMLQN SSGIEKYN

**Purity** >85% by SDS - PAGE

**Storage** Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

**Concentration** 0.5mg/ml (determined by Bradford assay)

## 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); platelet-activating factor acetylhydrolase; LDL PLA2; PAFAH; LDL-PLA(2); gVIIA-PLA2; 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; PAFAD; LP-PLA2; LDL-PLA2;

**Gene ID** 7941

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<b>mRNA Refseq</b>	NM_001168357
<b>Protein Refseq</b>	NP_001161829
<b>MIM</b>	601690
<b>UniProt ID</b>	Q13093
<b>Chromosome Location</b>	6p21.2-p12
<b>Pathway</b>	Diabetes pathways, organism-specific biosystem; Disease, organism-specific biosystem; Ether lipid metabolism, organism-specific biosystem; Ether lipid metabolism, conserved biosystem; Lissencephaly gene (LIS1) in neuronal migration and development, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Synthesis, Secretion, and Deacylation of Ghrelin, organism-specific biosystem;
<b>Function</b>	1-alkyl-2-acetylglycerophosphocholine esterase activity; calcium-independent phospholipase A2 activity; hydrolase activity; phospholipid binding;

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