

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

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

SPECIFICATION

Product Overview	PLA2G7, 47-441aa Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	47-441 a.a.
Description	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.
Form	Liquid. Phosphate Buffered Saline (pH7.4) containing 10% glycerol
Molecular Mass	47.2 kDa(418aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSAAASFGQ TKIPRGNGPY SVGCTDLMFD

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HTNKGTFRL YYPSQDNDRL DTLWIPNKEY FWGLSKFLGT HWLMGNILRL
 LFGSMTTPAN WNSPLRPGEK YPLVVFHSHGL GAFRTLYSAL GIDLASHGFI
 VAAVEHRDRS ASATYYFKDQ SAAEIGDKSW LYLRTLKQEE ETHIRNEQVR
 QRAKECSQAL SLILDIDHKG PVKNALDLKF DMEQLKDSID REKIAVIGHS
 FGGATVIQTL SEDQRFRCGI ALDAWMFPLG DEVYSRIPQP LFFINSEYFQ
 YPANIIMKK CYPDKERKM ITIRGSVHQN FADFTFATGK IIGHMLKLKG
 DIDSNVAIDL SNKASLAFLQ KHLGLHKDFD QWDCLEGGDD 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-acetylglycerophosphocholine esterase; 2-acetyl-1-alkylglycerophosphocholine esterase; PAFAD; LP-PLA2; LDL-PLA2;

Gene ID 7941

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mRNA Refseq	NM_001168357
Protein Refseq	NP_001161829
MIM	601690
UniProt ID	Q13093
Chromosome Location	6p21.2-p12
Pathway	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;
Function	1-alkyl-2-acetyl-glycerophosphocholine esterase activity; calcium-independent phospholipase A2 activity; hydrolase activity; phospholipid binding;