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

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	Human
ProteinLength	22-441 a.a.
Description	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.
Form	PLA2G7 protein is supplied in 20 mM Tris-HCl pH-8.0, 1 mM EDTA and 50% glycerol.
Purity	Greater than 95.0% as determined by SDS-PAGE.
Physical Appearance	Sterile Filtered clear solution.

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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-acetylglycerophosphocholine esterase; 2-acetyl-1-alkylglycerophosphocholine 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

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	migration and development; Metabolic pathways; Synthesis, Secretion
Function	1-alkyl-2-acetylglycerophosphocholine esterase activity; calcium-independent phospholipase A2 activity; hydrolase activity; phospholipid binding

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