

# Recombinant Human Phospholipase A2, Group VII (Platelet-Activating Factor Acetylhydrolase, Plasma)

Cat. No. PLA2G7-1744H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Human PLA2G7 was expressed in 293 cells.
<b>Species</b>	Human
<b>Source</b>	Human
<b>Description</b>	PLA2G7 is a secreted protein that mediates PAF activity by specifically catalyzing hydrolysis of the "sn2" ester bond, resulting in the conversion of PAF to the biologically inactive lyso-PAF. PLA2G7 can also interact with LDL particles to induce the hydrolysis of LDL associated, oxidized phospholipids, generating lysophosphatidylcholine (lyso-PC) and other lysophospholipids.
<b>Concentration</b>	10.0 ug/ml
<b>Form</b>	Supplied as a lyophilized powder.
<b>Purity</b>	> 95% pure by SDS-PAGE and HPLC
<b>Sequence</b>	Region of PLA2G7 protein corresponding to amino acids: FDWQYINPVA HMKSSAWVNK IQVLMMAASFGQTKIPRGNG PYSVGCTDLM FDHTNKGTFLL RLYYPSQDND RLDTLWIPNK EYFWGLSKFL GTHWLMGNILRLLFGSM TTP ANWNSPLRPG EKYPVVFSH GLGAFRTLYS AIGIDLASHG FIVA AVEHRD RSASATYYFKDQSAAEIGDK SWLY.

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<b>Molecular Mass</b>	47-55 kDa
<b>Applications</b>	Numerous applications are possible with this product and should be tested by the enduser under their own laboratory conditions.
<b>Storage</b>	Store at 4 deg C until reconstitution. Following reconstitution aliquot and freeze at -20 deg C for long term storage. Avoid repeated freeze/thaw cycles.
<b>Official Symbol</b>	PLA2G7

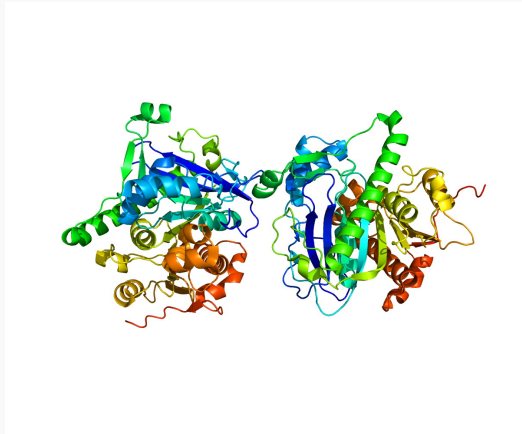
## GENE INFORMATION

<b>Gene Name</b>	PLA2G7 phospholipase A2, group VII (platelet-activating factor acetylhydrolase, plasma) [ Homo sapiens]
<b>Synonyms</b>	PLA2G7; phospholipase A2, group VII (platelet-activating factor acetylhydrolase, plasma); PAFAH; LP-PLA2; LDL-PLA2; Platelet-activating factor acetylhydrolase; PAF acetylhydrolase; PAF 2-acylhydrolase; 1-alkyl-2-acetyl-glycerophosphocholine esterase; lipoprotein-associated phospholipase A2; 2-acetyl-1-alkyl-glycerophosphocholine esterase; EC 3.1.1.47; Group-VIIA phospholipase A2; gVIIA-PLA2; LDL-associated phospholipase A2; LDL-PLA(2); EC 3.1.1; platelet-activating factor acetylhydrolase; OTTHUMP00000016555
<b>Gene ID</b>	7941
<b>mRNA Refseq</b>	NM_001168357
<b>Protein Refseq</b>	NP_001161829
<b>MIM</b>	601690

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<b>UniProt ID</b>	Q13093
<b>Chromosome Location</b>	6p21.2-p12
<b>Pathway</b>	Ether lipid metabolism;Metabolic pathways; Diabetes pathways; Lissencephaly gene(LIS1) in neuronal migration and development, organism-specific biosystem; Synthesis,Secretion, and Deacylation of Ghrelin
<b>Function</b>	1-alkyl-2-acetylglycerophosphocholineesterase activity; hydrolase activity; phospholipid binding; calcium-independentphospholipase A2 activity
<b>Rendering based on PDB3D59.</b>	

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