

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

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

SPECIFICATION

Product Overview	Recombinant Human PLA2G7 was expressed in 293 cells.
Species	Human
Source	Human
Description	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.
Concentration	10.0 ug/ml
Form	Supplied as a lyophilized powder.
Purity	> 95% pure by SDS PAGE and HPLC
Sequence	Region of PLA2G7 protein corresponding to amino acids: FDWQYINPVA HMKSSAWVNK IQVLMAAASFGQTKIPRGNG PYSVGCTDLM FDHTNKGTF RLYYPSQDND RLDTLWIPNK EYFWGLSKFL GTHWLMGNILRLFLGSMSTTP ANWNSPLRPG EKYPVVFSH GLGAFRTLYS AIGIDLASHG FIVA AVEHRD RSASATYYFKDQSAAEIGDK SWLY.

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Molecular Mass	47-55 kDa
Applications	Numerous applications are possible with this product and should be tested by the enduser under their own laboratory conditions.
Storage	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.
Official Symbol	PLA2G7
GENE INFORMATION	
Gene Name	PLA2G7 phospholipase A2, group VII (platelet-activating factor acetylhydrolase, plasma) [Homo sapiens]
Synonyms	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 3.1.1.1; platelet-activating factor acetylhydrolase; OTTHUMP00000016555
Gene ID	7941
mRNA Refseq	NM_001168357
Protein Refseq	NP_001161829
MIM	601690

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