

# Active Recombinant Human PLA2G7 protein(Met1-Asn441), His-tagged

**Cat. No.** PLA2G7-1145H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Human PLA2G7 (Q13093-1) precursor (Met 1-Asn 441) was expressed in HEK293, with a C-terminal polyhistidine tag.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	Met1-Asn441
<b>Form</b>	Lyophilized from sterile 50mM NaAc, 150mM NaCl, 10% glycerol, pH 5.0 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
<b>Bio-activity</b>	Measured by its ability to cleave a colorimetric peptide substrate, 1O-hexadecyl-2-deoxy-2-thio Sacytsglyceryl-3-phosphoryl choline (2-Thio-PAF), in the presence of 5, 5'Dithiobis(2-nitrobenzoic acid) (DTNB). The specific activity is >5000 pmoles/min/μg.
<b>Molecular Mass</b>	The secreted recombinant human PLA2G7 comprises 431 amino acids with a predicted molecular mass of 49.2 kDa. As a result of glycosylation, it migrates as an approximately 50-55 kDa band in SDS-PAGE under reducing conditions.
<b>Endotoxin</b>	< 1.0 EU per μg of the protein as determined by the LAL method.

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<b>Purity</b>	> 88 % as determined by SDS-PAGE
<b>Storage</b>	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
<b>Reconstitution</b>	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

## GENE INFORMATION

<b>Gene Name</b>	PLA2G7 phospholipase A2, group VII (platelet-activating factor acetylhydrolase, plasma) [ <i>Homo sapiens</i> ]
<b>Official Symbol</b>	PLA2G7
<b>Synonyms</b>	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;
<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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UniProt ID

Q13093

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