

Recombinant Human PLA2G7, His-tagged

Cat. No. PLA2G7-581H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human phospholipase A2, group VII (platelet-activating factor acetylhydrolase, plasma) is expressed in <i>E. coli</i> with N-terminal His-tagged. The molecular weight of the recombinant human PLA2G7 is 46.4 kDa.
Species	Human
Source	<i>E. coli</i>
Description	Platelet-activating factor acetylhydrolase (PAF-AH) is an extracellular phospholipase A2 which hydrolyzes the acetyl group at the sn-2 position of phospholipids. Two main types of PAF-AH have been characterized, namely the secreted (i.e. plasma) and intracellular enzymes, which are encoded on individual genes and share only 41% homology at the amino acid level. PAF deacetylation by PAF-AH causes loss of biological activity, making PAF-AH potential useful as an anti-inflammation therapy. Human recombinant PAF-AH was characterized using 2-Thio PAF as a substrate, which upon hydrolysis by PAF-AH releases a free thiol that reacts with 5,5-dithio-bis(2-dinitrobenzoic acid) (DTNB) to produce 5-thio-2-nitrobenzoic acid (TNB) with an absorbance maximum at 412 nm.
Purity	Greater than 95% as determined by SDS-PAGE.
Formulation	100 mM Sodium phosphate, pH 7.2, containing 100 mM sodium chloride and 20% glycerol.
Storage	-80

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°C. 1 year.

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); LP-PLA2; Platelet-Activating Factor Acetylhydrolase; PAF-AH; Lipoprotein PLA2; LDL-PLA(2); gVIIA-PLA2; PAF 2-acylhydrolase; PAF acetylhydrolase; group-VIIA phospholipase A2; LDL-associated phospholipase A2; PAFAH; lipoprotein-associated phospholipase A2; LDL-PLA2; 1-alkyl-2-acetyl-glycerophosphocholine esterase; 2-acetyl-1-alkyl-glycerophosphocholine esterase

Gene ID

7941

mRNA Refseq

NM_001168357

Protein Refseq

NP_001161829

MIM

601690

UniProt ID

Q13093

Chromosome Location

6p21.2-p12

Pathway


Ether lipid metabolism; Metabolic pathways; Diabetes pathways

Function

1-alkyl-2-acetyl-glycerophosphocholine esterase activity; hydrolase activity; phospholipid binding

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