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*E. coli*with N-terminal His-tagged. The molecular weight of the recombinant human PLA2G7 is 46.4 kDa.
Species	Human
Source	E.coli
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 intr acellular enzymes, which are encoded on individual genes and share only 41% homol ogy at the amino acid level. PAF deacetylation by PAF-AH causes loss of biological a ctivity, making PAF-AH potential useful as an anti-inflammation therapy. Human reco mbinant PAF-AH was characterized using 2-Thio PAF as a substrate, which upon hyd rolysis 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 maximu m 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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	℃. 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-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	6p21.2-p12
Pathway	Ether lipid metabolism; Metabolic pathways; Diabetes pathways
Function	1-alkyl-2-acetylglycerophosphocholine esterase activity; hydrolase activity; phospholipid binding

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