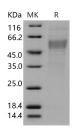
Recombinant Human PLA2G7/Lp-PLA2 Protein (His Tag)

Catalog No. PKSH031390

Note: Centrifuge before opening to ensure complete recovery of vial contents.

| Description | |
|-----------------------------|--|
| Synonyms | 2-acetyl-1-alkylglycerophosphocholine esterase;EC 3.1.1;EC 3.1.1.47;1-alkyl-2-acetylglycerophosphocholine esterase;Group-VIIA phospholipase A2;gVIIA-PLA2;LDL-associated phospholipase A2;LDL-PLA(2);LDL- PLA2;lipoprotein-associated phospholipase A2;LpPLA2;Lp-PLA2;PAF acetylhydrolase;PAF-AH;PAFAHPAF 2-acylhydrolase;phospholipase A2;group VII (platelet-activating factor acetylhydrolase;PLA2G7;plasma);platelet-activating factor acetylhydrolase |
| Species | Human |
| Expression Host | HEK293 Cells |
| Sequence | Met 1-Asn 441 |
| Accession | Q13093-1 |
| Calculated Molecular Weight | 49.2 kDa |
| Observed molecular weight | 50-55 kDa |
| Tag | C-His |
| Bioactivity | Measured by its ability to cleave a colorimetric peptide substrate, 10- hexadecyl-2-deoxy-2-thio Sacetylsnglyceryl-3-phosphoryl choline (2-Thio-PAF), in the presence of 5, 5'Dithiobis(2-nitrobenzoic acid) (DTNB). The specific activity is > 5000 pmoles/min/ μ g. |
| Properties | |
| Purity | > 88 % as determined by reducing SDS-PAGE. |
| Endotoxin | < 1.0 EU per μ g of the protein as determined by the LAL method. |
| Storage | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months. |
| Shipping | This product is provided as lyophilized powder which is shipped with ice packs. |
| Formulation | 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. Please refer to the specific buffer information in the printed manual. |
| Reconstitution | Please refer to the printed manual for detailed information. |
| Data | |



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> 88 % as determined by reducing SDS-PAGE.

Background

Platelet-activating factor acetylhydrolase; also known as 1-alkyl-2-acetylglycerophosphocholine esterase; 2-acetyl-1-alkylglycero-phosphocholine esterase; Group-VIIA phospholipase A2; LDL-associated phospholipase A2; PAF 2-acylhydrolase; PLA2G7 and PAFAH; is secreted protein which belongs to theAB hydrolase superfamily and Lipase family. PLA2G7 / PAFAH modulates the action of platelet-activating factor (PAF) by hydrolyzing the sn-2 ester bond to yield the biologically inactive lyso-PAF. It has a specificity for substrates with a short residue at the sn-2 position. It is inactive against long-chain phospholipids. PLA2G7 / PAFAH is a potent pro- and anti-inflammatory molecule that has been implicated in multiple inflammatory disease processes; including cardiovascular disease. PLA2G7 also represents an important; potentially functional candidate in the pathophysiology of coronary artery disease (CAD). Defects in PLA2G7 are the cause of platelet-activating factor acetylhydrolase deficiency (PLA2G7 deficiency). It is a trait which is present in 27% of Japanese. It could have a significant physiologic effect in the presence of inflammatory bodily responses.

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