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

Catalog No. PKSH031390

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

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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

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

Tag

Purity > 88 % as determined by reducing SDS-PAGE.

C-His

Endotoxin < 1.0 EU per μg 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

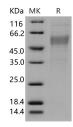
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

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



For Research Use Only

Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Fax: 1-832-243-6017

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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 the AB 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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