



Recombinant Protein Technical Manual

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

RPES3449

Product Data:

Product SKU: RPES3449

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: Q13093

Protein Information:

Molecular Mass: 48.8 kDa

AP Molecular Mass: 54 kDa

Tag: C-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping: This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.

Formulation: Supplied as a 0.2 µm filtered solution of 20mM HAc-NaCl, 150mM NaCl, 10% Glycerol, pH 4.5.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: 2-acetyl-alkylglycerophosphocholine esterase; EC 3.1.1; EC 3.1.1.47; 1-alkyl-2-acetyl-glycerophosphocholine 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; PAF-AHPAF 2-acylhydrolase; phospholipase A2; group VII (platelet-activating factor acetylhydrolase; PLA2G7; plasma); platelet-activating factor acetylhydrolase

Immunogen Information:

Sequence: Phe22-Asn441

Background:

Platelet-Activating Factor Acetylhydrolase (PAFAH) is a secreted enzyme which belongs to the AB hydrolase superfamily and Lipase family and catalyzes the degradation of platelet-activating factor to biologically inactive products. PAFAH is produced by inflammatory cells and hydrolyzes oxidised phospholipids in LDL. PAFAH has been implicated in the development of atherosclerosis and has also been identified as a marker for cardiac disease. PAFAH might have a major physiologic effect in the presence of inflammatory bodily responses. PAFAH alters the action of PAF by hydrolyzing the sn-2 ester bond to yield the biologically inactive lyso-PAF. PAFAH has specificity for substrates with a short residue at the sn-2 position.