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

Catalog No. PKSH033398

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

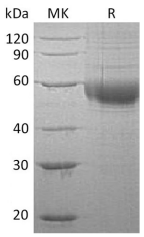
Description

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	Phe22-Asn441
Accession	AAH38452.1
Calculated Molecular Weight	48.8 kDa
Observed molecular weight	50-65 kDa
Tag	C-His
Bioactivity	Not validated for activity

Properties

Purity	> 90 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein 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 50mM NaAc, 150mM NaCl, 50% Glycerol, pH5.0.
Reconstitution	Not Applicable

Data



> 90 % as determined by reducing SDS-PAGE.

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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.

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