
Product Data Sheet

Product Name: PLA2G7 Human
 Cat. No.: GP22101
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Platelet-activating factor acetylhydrolase; PAF acetylhydrolase; PAF 2-acylhydrolase; LDL-associated phospholipase A2; LDL-PLA(2); 2-acetyl-1-alkylglycerophosphocholine esterase; 1-alkyl-2-acetyl-glycerophosphocholine esterase; PLA2G7; PAFAH; LP-PLA2; LDL-PLA2.		
Formulation	PLA2G7 protein is supplied in 20mM Tris-HCl pH-8.0, 1mM EDTA and 50% glycerol.		

Introduction

PLA2G7 is a secreted enzyme which catalyzes the degradation of platelet-activating factor to biologically inactive products. The PLA2G7 enzyme is produced by inflammatory cells and hydrolyzes oxidised phospholipids in LDL. In the blood, PLA2G7 goes mainly with LDL and less than 20% is coupled with HDL. PLA2G7 is implicated in the development of atherosclerosis and is also a marker for cardiac disease. PLA2G7 might have a major physiologic effect in the presence of inflammatory bodily responses. PLA2G7 alters the action of PAF (platelet-activating factor) by hydrolyzing the sn-2 ester bond to yield the biologically inactive lyso-PAF. PLA2G7 has specificity for substrates with a short residue at the sn-2 position. PLA2G7 is inactive against long-chain phospholipids. PLA2G7 gene defects are the source of platelet-activating factor acetylhydrolase deficiency, which is a trait that is present in 27% of the Japanese population.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Please avoid freeze thaw cycles.

Caution: Product has not been fully validated for medical applications. For research use only.

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Background

PLA2G7 Human Recombinant produced in E.Coli is single, a non-glycosylated, Polypeptide chain containing 420 amino acids fragment (22-441) having a total molecular mass of 52.29kDa and fused with a 4.5kDa amino-terminal hexahistidine tag. The PLA2G7 is purified by proprietary chromatographic techniques.

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