
Product Data Sheet

Product Name: PLA2G7 Human, HEK
Cat. No.: GP22102
Batch No.: 1

Product Data

Purity	>98%	Source
Physical Appearance	solid	Shipping Condition

Synonyms Platelet-activating factor acetylhydrolase; PAF acetylhydrolase; PAF 2-acylhydrolase; LDL-associated phospholipase A2; LDL-PLA(2)

Amino Acid Sequence FDWQYINPVAHMKSSAWVNKIQVLMAAASFGQTKIPRGNPYSVGCTDLMFDHTNKGTFRLRYPSQDNDRLDTLWIPNKEYFWGLSKFLGTHWLMG

Formulation The PLA2G7 is supplied as a 0.2µm filtered solution in 20mM HAc-NaCl, 150mM NaCl and 10% Glycerol, pH 4.5.

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. Avoid multiple freeze-thaw cycles.

Background

Recombinant Human PLA2G7 produced in HEK293 cells is a polypeptide chain (22-441 a.a), fused to an 8 amino acid His-tag at C-terminus, containing a total of 428 amino acids. PLA2G7 is purified by proprietary chromatographic techniques.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA