

Recombinant Human PLA2G5 Protein

Cat. No. PLA2G5-44H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PLA2G5 protein without tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	This gene is a member of the secretory phospholipase A2 family. It is located in a tightly-linked cluster of secretory phospholipase A2 genes on chromosome 1. The encoded enzyme catalyzes the hydrolysis of membrane phospholipids to generate lysophospholipids and free fatty acids including arachidonic acid. It preferentially hydrolyzes linoleoyl-containing phosphatidylcholine substrates. Secretion of this enzyme is thought to induce inflammatory responses in neighboring cells. Alternatively spliced transcript variants have been found, but their full-length nature has not been determined.
Molecular Mass	13.72 kDa
Purity	≥95% estimated by SDS-PAGE
Unit Definition	One unit is defined as the amount of enzyme required to release 1 μmol of TNB per minute under the following condition: 25 mM Tris-HCl, pH 7.5, containing 10 mM CaCl₂, 100 mM KCl, 0.3 mM Triton X-100, 1 mg/mL BSA, 500 μM 1,2-bis(heptanoylthio) Glycerophosphocholine, and 0.5 mM DTNB at 37 centigrade.
Stability	≥ 1 year

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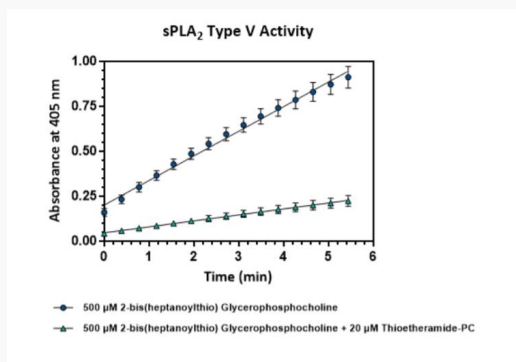
Storage	Store it at -80 centigrade
Storage Buffer	50 mM Tris-HCl, pH 8.0, containing 100 mM sodium chloride, 50 mM calcium chloride, and 20% glycerol
GENE INFORMATION	
Gene Name	PLA2G5 phospholipase A2 group V [Homo sapiens (human)]
Official Symbol	PLA2G5
Synonyms	PLA2G5; phospholipase A2 group V; FRFB; GV-PLA2; PLA2-10; hVPLA(2); phospholipase A2 group V; calcium-dependent phospholipase A2; Ca ²⁺ -dependent phospholipase A2; phosphatidylcholine 2-acylhydrolase 5
Gene ID	5322
mRNA Refseq	NM_000929
Protein Refseq	NP_000920
MIM	601192
UniProt ID	P39877

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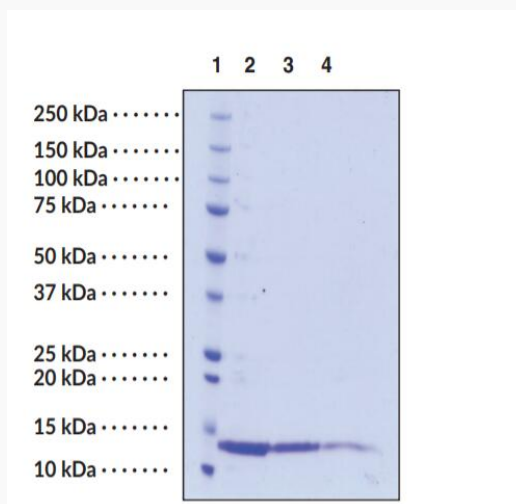
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Activity Assay



SDS-PAGE Analysis of PLA2G5



Lane 1: MW Markers; Lane 2: sPLA2 Type V (4 μg); Lane 3: sPLA2 Type V (2 μg); Lane 4: sPLA2 Type V (1 μg). Representative gel image shown; actual purity may vary between each batch.