

Datasheet for ABIN7197347 **PLA2G1B Protein (His tag)**

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Overview

Quantity:	50 µg
Target:	PLA2G1B
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This PLA2G1B protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human PLA2G1B/PLA2 Protein (His Tag)(Active)
Sequence:	Met 1-Ser 148
Characteristics:	A DNA sequence encoding the human PLA2G1B (NP_000919.1) (Met 1-Ser 148) with a C-terminal polyhistidine tag was expressed.
Purity:	> 92 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured by its ability to hydrolyze 1-Hexadecanoyl-2-(1-pyrenedecanoyl)-sn-glycero-3-phosphomethanol. The specific activity is >2,500 pmol/min/µg.

Target Details

Target:	PLA2G1B
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Target Details

Alternative Name:	PLA2G1B/PLA2 (PLA2G1B Products)
Background:	Background: phospholipase A2, also known as Phosphatidylcholine 2-acylhydrolase 1B, Group IB phospholipase A2, PLA2 and PLA2G1B, is a secreted protein which belongs to the phospholipase A2 family. Phospholipase A2 / PLA2G1B catalyzes the release of fatty acids from glycerol-3-phosphocholines. The best known varieties are the digestive enzymes secreted as zymogens by the pancreas of mammals. Sequences of pancreatic Phospholipase A2 / PLA2G1B enzymes from a variety of mammals have been reported. One striking feature of these enzymes is their close homology to venom phospholipases of snakes. Other forms of Phospholipase A2 / PLA2G1B have been isolated from brain, liver, lung, spleen, intestine, macrophages, leukocytes, erythrocytes, inflammatory exudates, chondrocytes, and platelets. Mice lacking in Phospholipase A2 / PLA2G1B are resistant to obesity and diabetes induced by feeding a diabetogenic high-fat/high-carbohydrate diet. Oral supplementation of a diabetogenic diet with the PLA2G1B inhibitor methyl indoxam effectively suppresses diet-induced obesity and diabetes. PLA2G1B inhibition may be a potentially effective oral therapeutic option for treatment of obesity and diabetes. Synonym: PLA2G1B;Phospholipase A2;Group IB phospholipase A2;PLA2;PLA2A;PPLA2
Molecular Weight:	16.2 kDa
NCBI Accession:	NP_000919
Pathways:	Inositol Metabolic Process , VEGF Signaling

Application Details

Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile 10 mM Tris, 5 mM CaCl ₂ , pH 8.0
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.