

Recombinant Human PLA2G1B, His-tagged

Cat. No. PLA2G1B-898H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PLA2G1B protein (Met 1 - Ser 148), fused with a his tag at the C-terminus, was expressed in <i>Human Cells</i> .
Species	Human
Source	Human Cells
Protein Length	1-148 a.a.
Description	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.
Molecular Mass	The recombinant human PLA2G1B comprises 144 amino acids after removal of the signal peptide, and has a predicted molecular mass of 16.2 kDa. rh PLA2G1B migrates as an approximately 19 kDa band in SDS-PAGE under reducing conditions.
Predicted N Terminal	Asp 16.
Purity	> 92 % as determined by SDS-PAGE.

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Formulation	Lyophilized from sterile 10mM Tris, 5mM CaCl, pH 8.0.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Stability	Samples are stable for up to twelve months from date of receipt at -70°C.
Storage	Store it under sterile conditions at -70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	PLA2G1B phospholipase A2, group IB (pancreas) [Homo sapiens]
Synonyms	PLA2G1B; PLA2G1B phospholipase A2, group IB (pancreas); PLA2; PLA2A; PPLA2; MGC119834; MGC119835; phospholipase A2 group IB; phosphatidylcholine 2-acylhydrolase
Gene ID	5319
mRNA Refseq	NM_000928
Protein Refseq	NP_000919
MIM	172410
UniProt ID	P04054
Chromosome	12q23-q24.1

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Location	
Pathway	Arachidonic acid metabolism; Ether lipid metabolism; Fc epsilon RI signaling pathway; Linoleic acid metabolism; Long-term depression; MAPK signaling pathway; Metabolic pathways; VEGF signaling pathway; Vascular smooth muscle contraction; alpha-Linolenic acid metabolism; Glycerophospholipid metabolism; GnRH signaling pathway
Function	bile acid binding; calcium ion binding; calcium-dependent phospholipase A2 activity; cell surface binding; hydrolase activity; receptor binding

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