

## Product datasheet for **TP316089**

### PLA2G1B (NM\_000928) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human phospholipase A2, group IB (pancreas) (PLA2G1B), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC216089 representing NM_000928 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)  MKLLVLAVLLTVAADSGISPRVWQFRKMIKCVIPGSDPFLEYNNYGCYCGLGGSGTPVDELKCCQTH DNCYDQAKKLDSCFLLDNPYHTYSYSCSGSAITCSSKNKECEAFICNCDRNAAICFSKAPYNKAHKNL DTKKYCQS  <b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>
Tag:	C-Myc/DDK
Predicted MW:	16.2 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<a href="#">NP_000919</a>
Locus ID:	5319
UniProt ID:	<a href="#">P04054</a>
RefSeq Size:	585



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Cytogenetics: 12q24.31

RefSeq ORF: 444

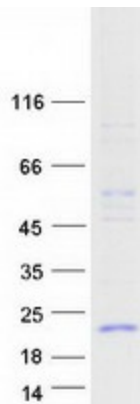
Synonyms: PLA2; PLA2A; PPLA2

**Summary:** This gene encodes a secreted member of the phospholipase A2 (PLA2) class of enzymes, which is produced by the pancreatic acinar cells. The encoded calcium-dependent enzyme catalyzes the hydrolysis of the sn-2 position of membrane glycerophospholipids to release arachidonic acid (AA) and lysophospholipids. AA is subsequently converted by downstream metabolic enzymes to several bioactive lipophilic compounds (eicosanoids), including prostaglandins (PGs) and leukotrienes (LTs). The enzyme may be involved in several physiological processes including cell contraction, cell proliferation and pathological response. [provided by RefSeq, Aug 2013]

**Protein Families:** Druggable Genome, Secreted Protein

**Protein Pathways:** alpha-Linolenic acid metabolism, Arachidonic acid metabolism, Ether lipid metabolism, Fc epsilon RI signaling pathway, Glycerophospholipid metabolism, GnRH signaling pathway, Linoleic acid metabolism, Long-term depression, MAPK signaling pathway, Metabolic pathways, Vascular smooth muscle contraction, VEGF signaling pathway

### Product images:



Coomassie blue staining of purified PLA2G1B protein (Cat# TP316089). The protein was produced from HEK293T cells transfected with PLA2G1B cDNA clone (Cat# [RC216089]) using MegaTran 2.0 (Cat# [TT210002]).