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Product datasheet for PH316089

PLA2G1B (NM_000928) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	PLA2G1B MS Standard C13 and N15-labeled recombinant protein (NP_000919)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC216089
Predicted MW:	16.2 kDa
Protein Sequence:	>RC216089 representing NM_000928 Red=Cloning site Green=Tags(s) MKLLVLAVLLTVAAADSGISPRAVWQFRKMIKCVIPGSDPFLEYNNYGCYCGLGGSGTPVDELDKCCQTH DNCYDQAKKLDSCKFLLDNPYTHTYSYSCSGSAITCSSKNKECEAFICNCDRNAAICFSKAPYNKAHKNL DTKKYCQS TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_000919
RefSeq Size:	585
RefSeq ORF:	444
Synonyms:	PLA2; PLA2A; PPLA2
Locus ID:	5319
UniProt ID:	P04054

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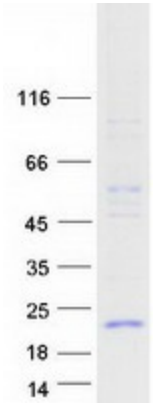
Cytogenetics: 12q24.31

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]).