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**Product Data Sheet**


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Product Name: PLA2G1B Human

Cat. No.: GP22096

Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Phospholipase A2; EC 3.1.1.4; Phosphatidylcholine 2-acylhydrolase; Group IB phospholipase A2; PLA2; PLA2A; PPLA2; sPLA2-IB;MGC119834; MGC119835; PLA2G1B.		
Amino Acid Sequence	MRGSHHHHHH GMASHMAVWQFRKMIKCVIP GSDPFLEYNN YGCYCGLGGS GTPVDELDKC CQTHDNCYDQ AKKLDSCFKL LDNPYHTYSSYSCSGSAITC SSKNKECEAF ICNCDRNAAI CFSKAPYNKA HKNLDTKKYC QS.		
Solubility	Add 0.1M Acetate buffer pH4 to prepare a working stock solution of approximately 0.5 mg/mL and let the lyophilized pellet dissolve completely. For conversion into higher pH value, we recommend intensive dilution by relevant buffer to a concentration of 10 $\mu$ g/ml. In higher concentrations the solubility of this antigen is limited. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.		
Formulation	Filtered (0.4 $\mu$ m) and lyophilized from 0.5 mg/ml in 0.05M Acetate buffer pH-4.		

**Introduction**

Group IB secretory phospholipase A2 (sPLA2-IB) mediates cell proliferation, cell migration, hormone release and eicosanoid production via its receptor in peripheral tissues. In the CNS, high-affinity binding sites of sPLA2-IB have been documented. sPLA2-IB induced neuronal cell death in a concentrationdependent manner depending on PGD2 metabolites, especially Delta12-PGJ2 that might mediate sPLA2-IB-induced apoptosis. The secretory PLA2 (sPLA2) family, in which 10 isozymes have been identified, consists of lowmolecular weight, Ca<sup>2+</sup>-requiring secretory enzymes that have been implicated in a number of biological processes, such as modification of eicosanoid

**Caution: Product has not been fully validated for medical applications. For research use only.**

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generation, inflammation, and host defense.

### Stability

Store lyophilized protein at -20°C . Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C .

### Background

Secreted Phospholipase A2-IB Human Recombinant is manufactured with N-terminal fusionf HisTag. PLA2G1B His-Tagged Fusion Protein is 16 kDa containing 126 amino acid residues of the human secreted phospholipase A2-IB and 16 additional amino acid residues - HisTag (underlined).

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