



Product Datasheet

Product Name	Secreted Phospholipase A2-IB Human Recombinant
Cata No	CB500501
Source	<i>Escherichia Coli.</i>
Synonyms	Phospholipase A2, EC 3.1.1.4, Phosphatidylcholine 2-acylhydrolase, Group IB phospholipase A2, PLA2, PLA2A, PPLA2, sPLA2-IB, MGC119834, MGC119835, PLA2G1B.

Description

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 concentration dependent 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, Ca²⁺-requiring secretory enzymes that have been implicated in a number of biological processes, such as modification of eicosanoid generation, inflammation, and host defense.

Secreted Phospholipase A2-IB Human Recombinant is manufactured with N-terminal fusion of 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).

MRGSHHHHHH GMASHMAVWQ FRKMIKCVIP

GSDPFLEYNN YGCYCGLGGS GTPVDELDKC
CQTHDNCYDQ AKKLDCKFL LDNPYHTYS
YSCSGSAITC SSKNKECEAF ICNCDRNAAI
CFSKAPYNKA HKNLDTKKYC QS

Physical Appearance

Lyophilized (freeze-dried) powder.

Purity

Greater than 95% as determined by SDS-PAGE.

Formulation

Filtered (0.4µm) and lyophilized from 0.5 mg/ml in 0.05M Acetate buffer pH-4.

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. The lyophilized protein remains stable until the expiry date when stored at -20°C.

Applications

Western blotting