

## PLA2G1B

### Recombinant Human PLA2G1B/Phospholipase A2-IB His

<b>Catalog No.</b>	CSI10727	<b>Quantity:</b>	2 µg
	CSI10728		10 µg
	CSI10729		1.0 mg
<b>Alternate Names:</b>	Group IB phospholipase A2, Phosphatidylcholine 2-acylhydrolase 1B		
<b>Description:</b>	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, Ca <sup>2+</sup> -requiring secretory enzymes that have been implicated in a number of biological processes, such as modification of eicosanoid generation, inflammation, and host defense.		
<b>UniProt ID:</b>	P04054		
<b>Gene ID:</b>	5319		
<b>Source:</b>	<i>E. coli</i>		
<b>Molecular Weight:</b>	16 kDa (126 aa)		
<b>Formulation:</b>	Lyophilized from filtered (0.4 µm) 0.05 M acetate buffer, pH 4		
<b>Purity:</b>	> 95% as determined by SDS-PAGE.		
<b>Amino Acid Sequence:</b>	MRGSHHHHHH GMASHMAVWQ FRKMIKCVIP GSDPFLEYNN YGCYCGLGGS GTPVDELDKC CQTHDNCYDQ AKKLDSCFKL LDNPYHTYYS YSCSGSAITC SSKNKECEAF ICNCDRNAAI CFSKAPYNKA HKNLDTKKYC QS		
<b>Reconstitution:</b>	Add 0.1 M Acetate buffer pH 4 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 µg/ml. In higher concentrations the solubility of this antigen is limited.		
<b>Application Notes:</b>	Product is not sterile. Please filter the product by an appropriate sterile filter before using it in the cell culture.		
<b>Storage &amp; Stability:</b>	Store lyophilized protein at -20°C to -80°C for up to 1 year.. Upon reconstitution, prepare aliquots and store at -20°C to -80°C. <b>Avoid repeated freezing/thawing cycles.</b>		

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

