

Secreted Phospholipase A2-IIA Recombinant Protein | PLA2G2A recombinant protein

Recombinant Human Secreted Phospholipase A2-IIA

CATALOG #
AAA38259

HOST
E Coli

PRODUCT SYNONYMS

Secreted Phospholipase A2-IIA; Recombinant Human Secreted Phospholipase A2-IIA; PLA2G2A Human; Secreted Phospholipase A2-IIA Human Recombinant; MOM1; PLA2; PLA2B; PLA2L; PLA2S; PLAS1; sPLA2; Phospholipase A2 membrane associated; EC 3.1.1.4; Phosphatidylcholine 2-acylhydrolase; Group IIA phospholipase A2; GIIC sPLA2; Non-pancreatic secretory phospholipase A2; NPS-PLA2; sPLA2-IIA; PLA2G2A; PLA2G2A recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95% as determined by SDS-PAGE.
Form/Format	Lyophilized from 0.5 mg/ml in 0.05M Acetate buffer pH-4. Filtered lyophilized (freeze-dried) powder.
Sequence	<u>MRGSHHH HHHGMASHM</u> /u>NLVNFHR MIKLTGTGKEA ALSYGFYGGCH CGVGGRGSPK DATDRCCVTH</u> <u>DCCYKRLEKR GCGTKFLSYK FSNSGSRITC AKQDSCRSQ LCECDKAAATC FARNKTTYNK KYQYYSNKHC</u> <u>RGSTPRC</u>
Sequence Length	144
Solubility	It is recommended to add 0.1M 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, an intensive dilution by relevant buffer to a concentration of 10 ug/ml is recommended. In higher concentrations the solubility of the PLA2G2A antigen is limited. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.
Preparation and Storage	Store lyophilized protein at -20 degree C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4 degree C for a limited period of time; it does not show any change after two weeks at 4 degree C.

ADDITIONAL INFORMATION

Related Product Information for PLA2G2A recombinant protein

Description: Secreted Phospholipase A2-IIA Human Recombinant is manufactured with N-terminal fusion of HisTag. PLA2G2A His-Tagged Fusion Protein is 15.8 kDa containing 124 amino acid residues of the human secreted phospholipase A2-IIA and 16 additional amino acid residues HisTag.

Introduction: Phospholipase A2 (PLA2) catalyzes the hydrolysis of the sn-2 position of membrane glycerophospholipids to liberate arachidonic acid (AA), a precursor of eicosanoids including prostaglandins and leukotrienes. The same reaction also produces lysophospholipids, which represent another class of lipid mediators. 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. This enzyme has been proposed to hydrolyze phosphatidylcholine (PC) in lipoproteins to liberate lyso- PC and free fatty acids in the arterial wall, thereby facilitating the accumulation of bioactive lipids and modified lipoproteins in atherosclerotic foci. In mice, sPLA2 expression significantly influences HDL particle size and composition and demonstrate that an induction of sPLA2 is required for the decrease in plasma HDL cholesterol in response to inflammatory stimuli. Instillation of bacteria into the bronchi was associated with surfactant degradation and a decrease in large:small ratio of surfactant aggregates in rats. sPLA2-IIA can exert beneficial action in the context of infectious diseases since recent studies have shown that this enzyme exhibits potent bactericidal effects. Induction of the synthesis of sPLA2-IIA is generally initiated by endotoxin and a limited number of cytokines via paracrine and/or autocrine processes.

Product Categories/Family for
PLA2G2A recombinant protein

Enzymes; Secreted Phospholipase A2

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505849
NCBI GeneID	5320
NCBI Accession #	NP_000291.1
NCBI GenBank Nucleotide #	NM_000300.3
UniProt Accession #	P14555; Q6DN24; Q6IBD9; Q9UCD2; A8K5I7
NCBI Official Full Name	phospholipase A2, membrane associated
NCBI Official Synonym Full Names	phospholipase A2, group IIA (platelets, synovial fluid)
NCBI Official Symbol	PLA2G2A
NCBI Official Synonym Symbols	MOM1; PLA2; PLA2B; PLA2L; PLA2S; PLAS1; sPLA2
NCBI Protein Information	phospholipase A2, membrane associated; GIIC sPLA2; NPS-PLA2; group IIA phospholipase A2; non-pancreatic secretory phospholipase A2; phosphatidylcholine 2-acylhydrolase 2A
UniProt Protein Name	Phospholipase A2, membrane associated
UniProt Gene Name	PLA2G2A
UniProt Synonym Gene Names	PLA2B; PLA2L; RASF-A; NPS-PLA2
UniProt Entry Name	PA2GA_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/pla2g2a-recombinant-protein-e-coli/38259>