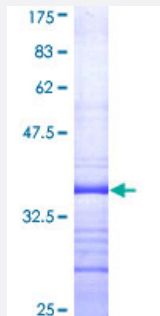


PLA2G2A (Human) Recombinant Protein (Q01)

Catalog # H00005320-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human PLA2G2A partial ORF (AAH05919, 21 a.a. - 120 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	NLVNFHRMIKLTTGKEAALSYGFYGCCHGCVGGRGSPKDATDRCCVTHDCCYKRLEKRGCGTKFL SYKFSNSGSRITCAKQDSCRSQLCECDKAAATCFAR
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.63
Interspecies Antigen Sequence	Rat (75)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — PLA2G2A

Entrez GeneID [5320](#)

GeneBank Accession# [BC005919](#)

Protein Accession# [AAH05919](#)

Gene Name PLA2G2A

Gene Alias MOM1, PLA2, PLA2B, PLA2L, PLA2S, PLAS1, sPLA2

Gene Description phospholipase A2, group IIA (platelets, synovial fluid)

Omim ID [114500](#) [172411](#)

Gene Ontology [Hyperlink](#)

Gene Summary The protein encoded by this gene is a member of the phospholipase A2 family (PLA2). PLA2s constitute a diverse family of enzymes with respect to sequence, function, localization, and divalent cation requirements. This gene product belongs to group II, which contains secreted form of PLA2, an extracellular enzyme that has a low molecular mass and requires calcium ions for catalysis. It catalyzes the hydrolysis of the sn-2 fatty acid acyl ester bond of phosphoglycerides, releasing free fatty acids and lysophospholipids, and thought to participate in the regulation of the phospholipid metabolism in biomembranes. Several alternatively spliced transcript variants with different 5' UTRs have been found for this gene

Other Designations OTTHUMP00000002786|phosphatidylcholine 2-acylhydrolase|phospholipase A2, group IIA|synovial phospholipase-A2

Pathway

- [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](#)

Disease

- [Adenoma](#)
- [Cardiovascular Diseases](#)
- [Colorectal Neoplasms](#)
- [Coronary Artery Disease](#)
- [Depressive Disorder](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [HIV Infections](#)
- [Lung Neoplasms](#)
- [Pulmonary Disease](#)
- [Schizophrenia](#)
- [Sepsis](#)

- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)