

PLA2G2A recombinant protein

PLA2G2A Protein, Human, Recombinant (His Tag)

CATALOG #
AAA257967

HOST
HEK293 Cells

PRODUCT SYNONYMS

PLA2G2A; PLA2G2A Protein; Human; Recombinant (His Tag); Human PLA2G2A/PLA2B Protein (His Tag); MOM1 Protein; PLA2 Protein; PLA2B Protein; PLA2L Protein; PLA2S Protein; PLAS1 Protein; sPLA2 Protein; phospholipase A2; group IIA (platelets; synovial fluid); PLA2G2A recombinant protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	≥97% as determined by SDS-PAGE ≥90% as determined by SEC-HPLC
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Sequence	Met1-Cys14 4
Source	Human; HEK293 Cells-derived Human PLA2G2A / PLA2B Protein (His Tag)
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Asn 21
Tag	C-His
Protein Construction	A DNA sequence encoding the human PLA2G2A (NP_000291.1)(Met 1-Cys 144) was expressed, with a polyhistidine tag at the C-terminus.
Reconstitution	Reconstituted with sterile deionized water to 0.2 mg/mL.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for PLA2G2A recombinant protein	Background: Phospholipase A2, membrane associated, also known as Phosphatidylcholine 2-acylhydrolase 2A, Group IIA phospholipase A2, Non-pancreatic secretory phospholipase A2 and PLA2G2A, is a peripheral membrane protein that belongs to the phospholipase A2 family. PLA2G2A is found in many cells and also extracellularly. The membrane-bound and secreted forms of PLA2G2A are identical. PLA2G2A has been proposed to play a role in anti-bacterial defense, inflammation and eicosanoid generation, in clearance of apoptotic cells, and in the Wnt signaling pathway. PLA2G2A is thought to participate in the regulation of the phospholipid metabolism in biomembranes including eicosanoid biosynthesis. PLA2G2A catalyzes the calcium-dependent hydrolysis of the 2-acyl groups in 3-sn-phosphoglycerides. PLA2G2A might be a factor in human colorectal tumorigenesis.
References	Praml,C. et al., 1998, Oncogene. 17 (15):2009-12. Fijneman,R.J. et al., 2008,Front Biosci 13 :4144-74. Fijneman,R.J. et al., 2009, Cell Oncol 31 (5):345-56.

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
Molecular Weight	Predicted Molecular Mass: 15.36kDa The recombinant human PLA2G2A consists of 135 amino acids and predicts a molecular mass of 15.4 kDa. In SDS-PAGE under reducing conditions, rh PLA2G2A migrates as an approximately 19 kDa band due to glycosylation.
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.

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Online datasheet: <https://stage.aaabiotech.com/pla2g2a-recombinant-protein-hek293-cells/257967>