



# Recombinant Human Cytosolic phospholipase A2 (PLA2G4A)

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| <b>Product Code</b>      | CSB-EP018097HU  |
| <b>Storage</b>           | Store at -20°C, for extended storage, conserve at -20°C or -80°C.   |
| <b>Uniprot No.</b>       | P47712  |
| <b>Product Type</b>      | Recombinant Protein   |
| <b>Immunogen Species</b> | Homo sapiens (Human)  |
| <b>Purity</b>            | >85% (SDS-PAGE)   |
| <b>Sequence</b>          | MSFIDPYQHI IVEHQYSHKF TVVVLRA TKV TKGAFGDMLD TDPYVELFI STTPDSRKRT RHFNNNDINPV WNETFEFILD PNQENVLEIT LMDANYVMDE TLGTATFTVS SMKVGEEKV PFIFNQVTEM VLEMSLEVCS CPDLRFSMAL CDQEKTRQQ RKEHIRESMK KLLGPKNSEG LHSARDVPVV AILGSGGGFR AMVGFSGVMK ALYESGILDC ATYVAGLSGS TWYMSTLYSH PDFPEKGPEE INEELMKNVS HNPLLLLTPQ KVKRYVESLW KKKSSGQPVT FTDIFGMLIG ETLIHNRMNT TLSSLKEKVN TAQCPLPLFT CLHVKPDVSE LMFADWVEFS PYEIGMAKYG TFMAPDLFGS KFFMGTVVKK YEENPLHFLM GVWGSASFIL FNRVLGVSGS QSRGSTMEEE LENITTKHIV SNDSSDSDE SHEPKGTENE DAGSDYQSDN QASWIHRMIM ALVSDSALFN TREGRAGKVH NFMLGLNLNT SYPLSPLSDF ATQDSFDDDE LDAAVADPDE FERIYEPLDV KSKKIHVVDS GLTFNLPYPL ILRPQRGVDL IISFDFSARP SDSSPPFKEL LLAEKWAKMN KLPFPKIDPY VFDREGLKEC YVFKPKNPDM EKDCPTIIHF VLANINFRKY RAPGVPRETE EEKEIADFDI FDDPESPFST FNFQYPNQAF KRLHDLMHFN TLNNIDVIKE AMVESIEYRR QNPSRCSVSL SNVEARRFFN KEFLSKPKA |
| <b>Source</b>            | E.coli  |
| <b>Target Names</b>      | PLA2G4A   |
| <b>Protein Names</b>     | Recommended name: Cytosolic phospholipase A2 Short name= cPLA2<br>Alternative name(s): Phospholipase A2 group IVA Including the following 2 domains: Phospholipase A2 EC= 3.1.1.4 Alternative name(s): Phosphatidylcholine 2-acy  |
| <b>Expression Region</b> | 1-749   |
| <b>Notes</b>             | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.   |
| <b>Tag Info</b>          | Tag type will be determined during the manufacturing process.   |
| <b>Protein Length</b>    | Full length protein   |
| <b>Target Details</b>    | This gene encodes a member of the cytosolic phospholipase A2 group IV family. The enzyme catalyzes the hydrolysis of membrane phospholipids to release arachidonic acid which is subsequently metabolized into eicosanoids. Eicosanoids, including prostaglandins and leukotrienes, are lipid-based cellular hormones that regulate hemodynamics, inflammatory responses, and other intracellular pathways. The hydrolysis reaction also produces lysophospholipids   |



that are converted into platelet-activating factor. The enzyme is activated by increased intracellular Ca(2+) levels and phosphorylation, resulting in its translocation from the cytosol and nucleus to perinuclear membrane vesicles.

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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.