

Phospholipase A2, Cytosolic (cPLA2) Recombinant Protein | cPLA2 recombinant protein

Recombinant Phospholipase A2, Cytosolic (cPLA2)

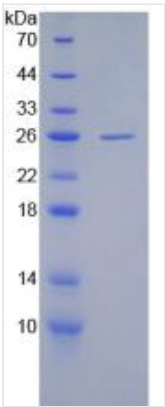
CATALOG # AAA20251	HOST E Coli	APPLICATIONS SDS-Page, Western Blot
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PRODUCT SYNONYMS

Phospholipase A2; Cytosolic (cPLA2); Recombinant Phospholipase A2; cPLA2 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	>90%
Concentration	Original Concentration: 200ug/mL (varies by lot)
Applicable Applications for cPLA2 recombinant protein	Positive Control, Immunogen, SDS-PAGE, WB (Western Blot)
Organism Species	Homo sapiens (Human)
Source	Prokaryotic expression
Residues	Met1~Ser178
Tags	N-terminal His Tag
Subcellular Location	Cytoplasm, Chromosome
Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5%Trehalose and Proclin300.
Predicted isoelectric point	5.9
Predicted Molecular Mass	21.9kDa
Accurate Molecular Mass	26kDa as determined by SDS-PAGE reducing conditions.
Traits	Freeze-dried powder.
Phenomenon explanation	The possible reasons that the actual band size differs from the predicted are as follows: 1.Splice variants: Alternative splicing may create different sized proteins from the same gene. 2. Relative charge: The composition of amino acids may affects the charge of the protein. 3. Post-translational modification: Phosphorylation, glycosylation, methylation etc. 4. Post-translation cleavage: Many proteins are synthesized as pro-proteins, and then cleaved to give the active form. 5. Polymerization of the target protein: Dimerization, multimerization etc.
USAGE	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months. Stability Test: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.



MSFIDPYQHI IVEHQYSHKF TVVLRATKV TKGAFGMDL TDPYVELFI
STTPDSRKRT RHFNDINPV WNETFEFILD PNQENVLEIT LMDANYVMDE
TLGTATFTVS SMKVGKKEV PFIFNQVTEM VLEMSLEVCS CPDLRFSMAL
CDQEKTRQQ RKEHRESMK KLLGPKNS

Sequence Information

SDS-PAGE

NCBI AND UNIPROT INFORMATION

NCBI GI #	23943920
NCBI GeneID	5321
NCBI Accession #	NP_077734.1
NCBI GenBank Nucleotide #	NM_024420.2
UniProt Accession #	P47712; Q29R80; B1AKG4
NCBI Official Full Name	cytosolic phospholipase A2
NCBI Official Synonym Full Names	phospholipase A2, group IVA (cytosolic, calcium-dependent)
NCBI Official Symbol	PLA2G4A
NCBI Official Synonym Symbols	PLA2G4; cPLA2-alpha
NCBI Protein Information	cytosolic phospholipase A2; cPLA2; lysophospholipase; phospholipase A2 group IVA; phosphatidylcholine 2-acylhydrolase; calcium-dependent phospholipid-binding protein
UniProt Protein Name	Cytosolic phospholipase A2
UniProt Gene Name	PLA2G4A
UniProt Synonym Gene Names	CPLA2; PLA2G4; cPLA2
UniProt Entry Name	PA24A_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.