

## Product datasheet for **TP320972M**

### Phospholipase A2 (PLA2G4A) (NM\_024420) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human phospholipase A2, group IVA (cytosolic, calcium-dependent) (PLA2G4A), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC220972 representing NM_024420 Red=Cloning site Green=Tags(s)

MSFIDPYQHIIVEHQYSHKFTVWLRATKVTKGAFGDMLDTPDPYVELFISTTPDSRKTRRHFNNDINPV  
WNETFELDIPNQENVLEITLMDANYVMDETLGTATFTVSSMKVGEKKEVPFIFNQVTEMVLEMSLEVCS  
CPDLRFSMALCDQEKTRQQRKEHIRESMKKLLGPKNSEGLHSARDVPVAILGSGGGFRAMVGFSGVMK  
ALYESGILDCATYVAGLSGSTWYMSTLYSHPDFPEKGPPEINEELMKNVSHNPLLLTPQKVKRYVESLW  
KKKSSGQPVTFTDIFGMLIGETLIHNRMNNTLSSLKEKVNTAQCPPLFTCLHVKPDVSELMFADWVEFS  
PYEIGMAKYGTFMAPDLFGSKFFMGTVVKKYEENPLHFLMGVWGSFAFSLFNRLVGVSGSQSRGSTMEEE  
LENITTKHIVSNDSDDDESHEPKGTENEDAGSDYQSDNQASWIHRMIMALVSDSALFNTREGRAGKVH  
NFMLGLNLNTSYPLSPLSDFATQDSFDDDELDAAVADPDEFERIYEPLDVKSKKIHVVDSGLTFNLPYPL  
ILRPQRGVDLIISFDFSARPSDSSPPFKELLALAEKWKMNKLPFPKIDPYVFDREGLKECYVFKPNPDM  
EKDCPTIIHFVLANINFRKYKAPGVPRETEEEKEIADFIDDPESPSTFNFQYPNQAFKRLHDLMHFN  
TLNNIDVIKEAMVESIEYRRQNPSRCSVLSNVEARRFFNKEFLSKPKA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

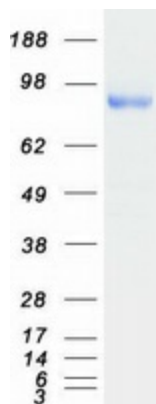
Tag:	C-Myc/DDK
Predicted MW:	85 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.



[View online »](#)

<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_077734</a>
<b>Locus ID:</b>	5321
<b>UniProt ID:</b>	<a href="#">P47712</a>
<b>RefSeq Size:</b>	2875
<b>Cytogenetics:</b>	1q31.1
<b>RefSeq ORF:</b>	2247
<b>Synonyms:</b>	cPLA2; cPLA2-alpha; GURDP; PLA2G4
<b>Summary:</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. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2015]
<b>Protein Pathways:</b>	alpha-Linolenic acid metabolism, Arachidonic acid metabolism, Ether lipid metabolism, Fc epsilon RI signaling pathway, Fc gamma R-mediated phagocytosis, Glycerophospholipid metabolism, GnRH signaling pathway, Linoleic acid metabolism, Long-term depression, MAPK signaling pathway, Metabolic pathways, Vascular smooth muscle contraction, VEGF signaling pathway

### Product images:



Coomassie blue staining of purified PLA2G4A protein (Cat# [TP320972]). The protein was produced from HEK293T cells transfected with PLA2G4A cDNA clone (Cat# [RC220972]) using MegaTran 2.0 (Cat# [TT210002]).