

PLA2G2A Protein, Human, Recombinant (His)

General Information

Synonyms:	PLAS1;phospholipase A2, group IIA (platelets, synovial fluid);PLA2B;sPLA2;PLA2L;PLA2;MOM1;PLA2S
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. Predicted N terminal: Asn 21
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P14555
Molecular Weight:	15.4 kDa (predicted); 19 kDa (reducing condition, due to glycosylation)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 97 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

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

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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.

Reference

- 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.

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