

Human PLA2G2A / PLA2B Protein (His Tag)



Sino Biological
Biological Solution Specialist

Catalog Number: 11187-H08H

General Information

Gene Name Synonym:

MOM1; PLA2; PLA2B; PLA2L; PLA2S; PLAS1; sPLA2

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.

Source: Human

Expression Host: HEK293 Cells

QC Testing

Purity: > 97 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Asn 21

Molecular Mass:

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.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

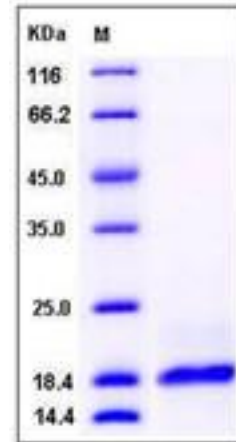
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

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 which 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

1. Praml, C. et al., 1998, Oncogene. 17 (15):2009-12.
2. Fijneman, R.J. et al., 2008, Front Biosci 13 :4144-74.
3. Fijneman, R.J. et al., 2009, Cell Oncol 31 (5):345-56.

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For US Customer: Fax: 267-657-0217 • Tel: 215-583-7898

Global Customer: Fax :+86-10-5862-8288 • Tel:+86-400-890-9989 • <http://www.sinobiological.com>