

Recombinant Human Phospholipase A2 group IIA/PLA2G2A Protein

Catalog No.: RP03560 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	5320	P14555

Tags

C-His

Synonyms

PLA2G2A; PLA2B; PLA2L; RASFA
A[Phospholipase A2; membrane associated;NPS-PLA2

Product Information

Source	Purification
HEK293 Cells	≥ 97 % as determined by SDS-PAGE. ≥ 90 % as determined by SEC-HPLC.

Calculated MW	Observed MW
15.4 kDa	15-20 kDa

Endotoxin

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

Formulation

Lyophilized from sterile PBS, pH 7.4. Please contact us for any concerns or special requirements. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

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 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.

Basic Information

Description

Recombinant Human Phospholipase A2 group IIA/PLA2G2A Protein is produced by HEK293 Cells system. The target protein is expressed with sequence (Met 1-Cys 144) of Human Phospholipase A2 group IIA/PLA2G2A(Accession #NP_000291.1) fused with His tag at the C-Terminus.

Bio-Activity

Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

Operational Notes

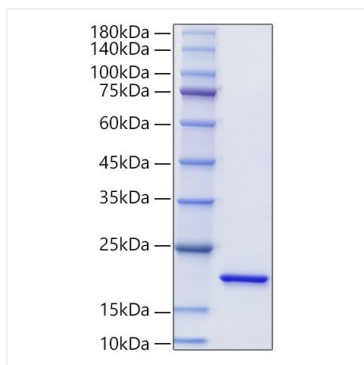
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

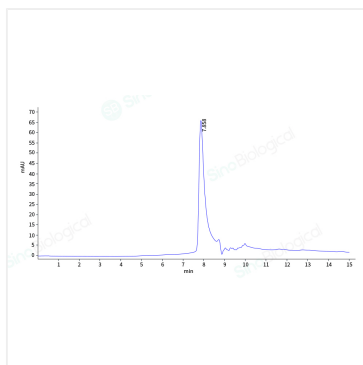
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Validation Data



Recombinant Human Phospholipase A2 group IIA/PLA2G2A Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Recombinant Human Phospholipase A2 group IIA/PLA2G2A Protein is greater than 90% as determined by SEC-HPLC.