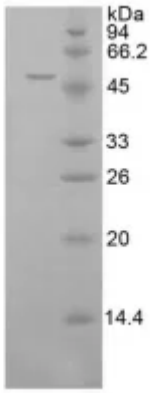
Active Phospholipase A2 Group VII (LpPLA2)

Catalog#:PEH12545

概述（Summary）

别称（Alternative Names）	PLA2G7; PAF-AH; PAFAH; Lp-PLA2; LDL-PLA2; Platelet Activating Factor Acetylhydrolase,Plasma; Phospholipase A2,Group VII; LDL-associated phospholipase A2; Phospholipase A2, Lipoprotein Associated
纯度（Purity）	Greater than 90% as determined by reducing SDS-PAGE.
内毒素（Endotoxin level）	Please contact with the lab for this information
蛋白构建（Construction）	【Phe22-Asn441】
Accession #	Q13093
表达宿主（Host）	E.coli
种属（Species）	Homo sapiens (Human)
预测分子量（Predicted MW）	49.0 kDa
制剂（Form）	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
运输方式（Shipping）	The product is shipped with ice bag. Upon receipt, store it immediately at the temperature listed below.
稳定性&储存（Stability &Storage）	12 months at -20°C to -80°C in lyophilized state.6 months at -20°C to -80°C under sterile conditions after reconstitution.7-10 days at 2°C to 8°C under sterile conditions after reconstitution.Please minimize freeze-thaw cycles.
复溶（Reconstitution）	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

电泳图（SDS-PAGE image）



Greater than 90% as determined by reducing SDS-PAGE.

活性图（Bioactivity image）

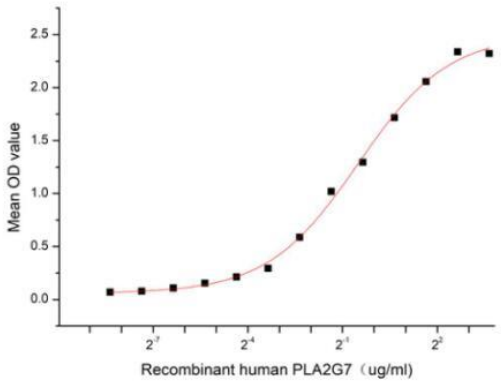


Figure 1. The binding activity of recombinant human PLA2G7 and recombinant rat PON1

Phospholipase A2 Group VII (PLA2G7) which is also known as Lp-PLA2, is a plasma enzyme bound to lipoproteins: 80% bound to LDL, 15%-20% to HDL, and the remainder to VLDL. It is produced in major by mature macrophages and activated platelets and catalyzes the degradation of platelet-activating factor to biologically inactive products. Besides, Paraoxonase 1 (PON1) has been identified as an interactor of PLA2G7, thus a functional binding ELISA assay was conducted to detect the interaction of recombinant human PLA2G7 and recombinant rat PON1. Briefly, PLA2G7 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 ul were then transferred to PON1-coated microtiter wells and incubated for 1h at 37℃. Wells were washed with PBST and incubated for 1h with anti-PLA2G7 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37℃. Finally, add 50μL stop solution to the wells and read at 450/630 nm immediately. The binding activity of recombinant human PLA2G7 and recombinant rat PON1 was shown in Figure 1, the EC50 for this effect is 0.7 ug/mL.

注意事项（Note）

For Research Use Only , Not for Diagnostic Use.