

Phospholipase A2 Group VII (LpPLA2) Active Protein | LpPLA2 active protein

Active Phospholipase A2 Group VII (LpPLA2)

CATALOG # AAA153065	HOST 293F Cell	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

Phospholipase A2 Group VII (LpPLA2); Active Phospholipase A2 Group VII (LpPLA2); Phospholipase A2 Group VII; LpPLA2 active protein (eukaryotic; 293F Cell); Rat; PLA2G7; PAF-AH; PAFAH; Lp-PLA2; LDL-PLA2; Platelet Activating Factor Acetylhydrolase; Plasma; Phospholipase A2; Group VII; LDL-associated phospholipase A2; Lipoprotein Associated; LpPLA2 active protein

PRODUCT SPECIFICATIONS

Host	293F Cell
Purity/Purification	Greater than 95% by SDS-PAGE
Form/Format	PBS, pH7.4, containing 0.01% SKL, 5% Trehalose. Freeze-dried powder
Sequence Positions	Leu22~Asn440
Applicable Applications for LpPLA2 active protein	Activity Assay, Cell Culture
Expression System	Eukaryotic expression
Species	Rat
Tag	N-terminal His
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Isoelectric Point	7.6
Research Area	Enzyme & Kinase
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months Stable for 12 months if correctly stored.

IMAGES

Specific Activity (pmol/min/ug)=

Adjusted V_{max} (OD/min) x well volume (L) x 10^{12} pmol/mol

ext. coeff** ($M^{-1}cm^{-1}$) x path corr.*** (cm) x amount of enzyme (ug)

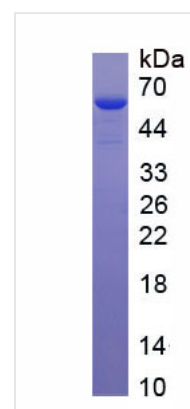
*Adjusted for Substrate Blank

**Using the extinction coefficient $13260 M^{-1}cm^{-1}$

***Using the path correction 0.320 cm

Bioactivity

PLA2G-VII 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. In contrast to other classical SPLA2s,



SDS-PAGE

Figure. SDS-PAGE

ADDITIONAL INFORMATION

Product Categories/Family for LpPLA2 active protein	Active proteins
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NCBI AND UNIPROT INFORMATION

NCBI GI #	57164125
NCBI GeneID	301265
NCBI Accession #	NP_001009353.1
NCBI GenBank Nucleotide #	NM_001009353.1
UniProt Accession #	Q5M7T7
Molecular Weight	49,491 Da
NCBI Official Full Name	platelet-activating factor acetylhydrolase
NCBI Official Synonym Full Names	phospholipase A2 group VII
NCBI Official Symbol	Pla2g7
NCBI Protein Information	platelet-activating factor acetylhydrolase
UniProt Protein Name	Phospholipase A2, group VII (Platelet-activating factor acetylhydrolase, plasma)
UniProt Gene Name	Pla2g7

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/293f-active-protein/phospholipase-a2-group-vii-lppla2/153065>