Recombinant human PLA2G7/PAF_AH/Lp_PLA2 protein

Catalog Number: ATGP2910

PRODUCT INFORMATION

Expression system
E.coli

Domain
47-441aa

UniProt No.
Q13093

NCBI Accession No.
NP_001161829

Alternative Names
Platelet-activating factor acetylhydrolase precursor, Platelet-activating factor acetylhydrolase precursor, LDL-PLA2, LP-PLA2, PAFAD, PAFAH

PRODUCT SPECIFICATION

Molecular Weight
47.2 kDa (418aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol,

Purity
> 85% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
PLA2G7 (platelet-activating factor acetylhydrolase), also known as lipoprotein-associated phospholipase A2, is a phospholipase A2 enzyme. It is a secreted enzyme which catalyzes the degradation of platelet-activating factor to biologically inactive products. This protein is produced by inflammatory cells and hydrolyzes oxidised phospholipids in LDL. In the blood, PLA2G7 goes mainly with LDL and less than 20% is coupled with HDL. It is implicated in the development of atherosclerosis and is also a marker for cardiac disease. It might have a major

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physiologic effect in the presence of inflammatory bodily responses. Recombinant human PLA2G7 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

Amino acid Sequence

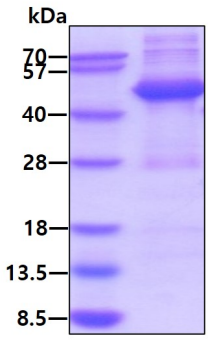
<MGSSHHHHHH SSGLVPRGSH MGS>AAASFGQ TKIPRGNGPY SVGCTDLMFD HTNKGTFLRL YYPSQDNDRL DTLWIPNKEY FWGLSKFLGT HWLMGNILRL LFGSMTTPAN WNSPLRPGEK YPLVVFSHGL GAFRTLYSAI GIDLASHGFI VAAVEHRDRS ASATYYFKDQ SAAEIGDKSW LYLRTLKQEE ETHIRNEQVR QRAKECSQAL SLILDIDHGK PVKNALDLKF DMEQLKDSID REKIAVIGHS FGGATVIQTL SEDQRFRCGI ALDAWMFPLG DEVYSRIPQP LFFINSEYFQ YPANIIKMKK CYSPDKERKM ITIRGSVHQN FADFTFATGK IIGHMLKLKG DIDSNVAIDL SNKASLAFLQ KHLGLHKDFD QWDCLIEGDD ENLIPGTNIN TTNQHIMLQN SSGIEKYN

General References

Tjoelker LW. et al. (1995) Nature. 374: 549-553

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.