

PLA2G7, 47-441aa Human, His tag, E.coli

Cat.NO.: TP03424

3th Edition

Synonyms:Platelet-activating factor acetylhydrolase precursor, LDL-PLA2, LP-PLA2, PAFAD, PAFAH

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 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.

Form:Liquid. Phosphate Buffered Saline (pH7.4) containing 10% glycerol,

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

Sequences:

MGSSHHHHHHSSGLVPRGSHMGSAASFGQTKIPRGNPYSVGCTDLMFDHTNKGTFRLRYPSQDNDRLDTLW
IPNKEYFWGLSKFLGTHWLMGNILRLLFGSMTPANWNSPLRPGEKYPLVVFHSHGLGAFRTLYSAIGIDLASHGFIV
AAVEHRDRSASATYYFKDQSAAEIGDKSWLYLRTLKQEEETHIRNEQVRQRAKECSQALSLILDIDHGKPVKNALDL
KFDMEQLKDSIDREKIAVIGHSFGGATVIQTLSEDQRFRCGIALDAWMFPLGDEVYSRIPQPLFFINSEYFQYPANIIK
MKKCYPDKERKMITIRGSVHQNFADFTFATGKIIGHMLKLGKGDIDSNVAIDL SNKASLAFLQKHLGLHKDFDQWDC
LIEGD DENLIPGTNINTTNQHIMLQNSSGIEKYN

Purity:> 95% by HPLC

Concentration:0.5mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.