

32-2684: PLA2G7 HEK Recombinant Protein

Alternative Name : Platelet-activating factor acetylhydrolase, PAF acetylhydrolase, PAF 2-acylhydrolase, LDL-associated phospholipase A2, LDL-PLA(2), 2-acetyl-1-alkylglycerophosphocholine esterase, 1-alkyl-2-acetyl-1-alkylglycerophosphocholine esterase, PLA2G7, PAFAH, LP-PLA2,

Description

Source : HEK293 cells. Recombinant Human PLA2G7 produced in HEK293 cells is a polypeptide chain (22-441 a.a), fused to an 8 amino acid His-tag at C-terminus, containing a total of 428 amino acids. PLA2G7 is purified by proprietary chromatographic techniques. PLA2G7 is a secreted enzyme which catalyzes the degradation of platelet-activating factor to biologically inactive products. The PLA2G7 enzyme 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. PLA2G7 is implicated in the development of atherosclerosis and is also a marker for cardiac disease. PLA2G7 might have a major physiologic effect in the presence of inflammatory bodily responses. PLA2G7 alters the action of PAF (platelet-activating factor) by hydrolyzing the sn-2 ester bond to yield the biologically inactive lyso-PAF. PLA2G7 has specificity for substrates with a short residue at the sn-2 position. PLA2G7 is inactive against long-chain phospholipids. PLA2G7 gene defects are the source of platelet-activating factor acetylhydrolase deficiency, which is a trait that is present in 27% of the Japanese population.

Product Info

Amount : 20 µg
Purification : Greater than 95% as determined by SEC-HPLC and SDS-PAGE.
Content : The PLA2G7 is supplied as a 0.2µm filtered solution in 20mM HAC-NaCl, 150mM NaCl and 10% Glycerol, pH 4.5.
Storage condition : Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Avoid multiple freeze-thaw cycles.
Amino Acid : FDWQYINPVAHMKSSAWVNKIQVLMMAASFGQTKIPRNGNPYSVGCTDLMFDHTNKGTFRLRYPSQDNDRL DTLWIPNKEYFWGLSKFLGTHWLMGNILRLLFGSMTTPANWNSPLRPGEKYPLVVFHSHGLGAFRTLYSAIGIDL ASHGFIVA AVEHRDRSASATYYFKDQSAAEIGDKSWLYLRTLKQEEETHIRNEQVRQRAKECSQALSILIDIDHG KPVKNALDLKFDMEQLKDSIDREKIAVIGHSFGGATVIQTLSEDQRFRCGIALDAWMFPLGDEVYSRIPQPLFFIN SEYFYQYANIIKMKKCYSPDKERKMITIRGSVHQNFADFTFATGKIIGHMLKLGKGDIDSNAADLSNKASLAF LQK HLG LHKDFDQWDCLIEGD DENLIPGTNINTTNQHIMLQNSSGIEKYNVDH HHHHHH.

