PAF-AH Human HEK293 cells

Product Data Sheet

Type: Recombinant
Source: HEK293 cells
Species: Human
Other names: PAF acetylhydrolase, PAF 2-acylhydrolase, LDL-associated phospholipase A2, LDL-PLA(2), 2-acetyl-1-alkylglycerophosphocholine esterase, 1-alkyl-2-acetylglycerophosphocholine esterase

Cat. No.:

RBG10262005	(5 µg)
RBG10262020	(20 µg)
RBG10262100	(100 µg)

Description

Platelet Activating Factor (PAF) is a biologically active phospholipid, which exerts primarily proinflammatory activities by specifically signaling through G-protein-coupled receptors on platelets, neutrophils, and monocytes. Platelet Activating Factor Acetylhydrolase (PAF-AH) is a secreted protein that mediates PAF activity by specifically catalyzing hydrolysis of the “sn2” ester bond, resulting in the conversion of PAF to the biologically inactive lyso-PAF. PAF-AH can also interact with LDL particles to induce the hydrolysis of LDL-associated, oxidized phospholipids, generating lysophosphatidylcholine (lyso-PC) and other lysophospholipids. Recombinant Human PAF-AH is a 420 amino acid glycoprotein which migrates with an apparent molecular mass of 47-55 kDa by SDS-PAGE analysis. Recombinan Human PAF-AH has a calculated, theoretical meolecular weight of 47.8 kDa.

Research topic

Lipoprotein metabolism

Amino Acid Sequence

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FDWQYINPVA HMKSSAWVNK IQVLMAAASF GQTKIPRGNG PYSVGCTDLM FDHTNKGTFL RLYYPSQDND RLDTLWIPNK
EYFWGLSKFL GTHWLMGNIL RLLFGSMTTP ANWNSPLRPG EKYPLVVFSH GLGAFRTLYS AIGIDLASHG FIVAAVEHRD
RSASATYYFK DQSAAEIGDK SWLYLRTLKQ EEETHIRNEQ VRQRAKECSQ ALSLILDIDH GKPVKNALDL KFDMEQLKDS
IDREKIAVIG HSFGGATVIQ TLSEDQRFRC GIALDAWMFP LGDEVYSRIP QPLFFINSEY FQYPANIIKM KKCYSPDKER
KMITIRGSVH QNFADFTFAT GKIIGHMLKL KGDIDSNVAI DLSNKASLAF LQKHLGLHKD FDQWDCLIEG DDENLIPGTN
INTTNQHIML QNSSGIEKYN
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Source

HEK293 cells

Purity

95%

Biological Activity

Measured by its ability to cleave a PAF analog in a chromogenic substrate linked assay. At a PAF-AH concentration of 10.0 µg/ml, 50% cleavage was achieved at an incubation time of approximately 2 minutes.

Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at-20°C to -80°C.

Storage, Stability/Shelf Life

-20°C

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