

Recombinant Human PAFAH1B3

Cat. No. PAFAH1B3-28937TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human PAFAH1B3 with N-terminal proprietary tag. Predicted MW 51.52kDa.
Species	Human
Source	Wheat Germ
ProteinLength	231 amino acids
Description	This gene encodes an acetylhydrolase that catalyzes the removal of an acetyl group from the glycerol backbone of platelet-activating factor. The encoded enzyme is a subunit of the platelet-activating factor acetylhydrolase isoform 1B complex, which consists of the catalytic beta and gamma subunits and the regulatory alpha subunit. This complex functions in brain development. A translocation between this gene on chromosome 19 and the CDC-like kinase 2 gene on chromosome 1 has been observed, and was associated with mental retardation, ataxia, and atrophy of the brain. Alternatively spliced transcript variants have been described.
Molecular Weight	51.520kDa inclusive of tags
Tissue specificity	In the adult, expressed in brain, skeletal muscle, kidney, thymus, spleen, colon, testis, ovary and peripheral blood leukocytes. In the fetus, highest expression occurs in brain.
Form	Liquid

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Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MSGEENPASKPTPVQDVQGDGRWMSLHHRFVADSKDKEPE VVFIGDSLVLQMLHQ CEIWRELFSPHLHALNFGIGGDGTQHV LWRENGELEHIRPKIVVWVGTTNNHGHTA EQVTGGIKAI VQLVNERQPQARVVVLGLLPRGQHPNPLREKNRQVNELVR AALAG HPRAHFLDADPGFVHSDGTISHHDMYDYLHLSRLG YTPVCRALHSLLLRLLAQDQG QGAPLLEPAP
Sequence Similarities	Belongs to the GDSL lipolytic enzyme family. Platelet-activating factor acetylhydrolase IB beta/gamma subunits subfamily.

GENE INFORMATION

Gene Name	PAFAH1B3 platelet-activating factor acetylhydrolase 1b, catalytic subunit 3 (29kDa) [Homo sapiens]
Official Symbol	PAFAH1B3
Synonyms	PAFAH1B3; platelet-activating factor acetylhydrolase 1b, catalytic subunit 3 (29kDa); platelet activating factor acetylhydrolase, isoform Ib, gamma subunit (29kD) , platelet activating factor acetylhydrolase, isoform Ib, gamma subunit 29kDa , platelet a
Gene ID	5050
mRNA Refseq	NM_001145939

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Protein Refseq	NP_001139411
MIM	603074
Uniprot ID	Q15102
Chromosome Location	19q13.1
Pathway	Ether lipid metabolism, organism-specific biosystem; Ether lipid metabolism, conserved biosystem; Lissencephaly gene (LIS1) in neuronal migration and development, organism-specific biosystem; Metabolic pathways, organism-specific biosystem;
Function	1-alkyl-2-acetylglycerophosphocholine esterase activity; hydrolase activity; protein binding;

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