

Recombinant Mouse Pafah1b1 Protein, Myc/DDK-tagged

Cat. No. Pafah1b1-4655M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length platelet-activating factor acetylhydrolase, isoform 1b, beta1 subunit (cDNA clone MGC:13913 IMAGE:4017963),, with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Regulatory subunit (beta subunit) of the cytosolic type I platelet-activating factor (PAF) acetylhydrolase (PAF-AH (I)), an enzyme that catalyzes the hydrolyze of the acetyl group at the sn-2 position of PAF and its analogs and participates to the PAF inactivation. Regulates the PAF-AH (I) activity in a catalytic dimer composition-dependent manner. Positively regulates the activity of the minus-end directed microtubule motor protein dynein. May enhance dynein-mediated microtubule sliding by targeting dynein to the microtubule plus end. Required for several dynein- and microtubule-dependent processes such as the maintenance of Golgi integrity, the peripheral transport of microtubule fragments and the coupling of the nucleus and centrosome. Required during brain development for the proliferation of neuronal precursors and the migration of newly formed neurons from the ventricular/subventricular zone toward the cortical plate. Neuronal migration involves a process called nucleokinesis, whereby migrating cells extend an anterior process into which the nucleus subsequently translocates. During nucleokinesis dynein at the nuclear surface may translocate the nucleus towards the centrosome by exerting force on centrosomal microtubules. Also required for proper activation of Rho

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GTPases and actin polymerization at the leading edge of locomoting cerebellar neurons and postmigratory hippocampal neurons in response to calcium influx triggered via NMDA receptors. May also play a role in other forms of cell locomotion including the migration of fibroblasts during wound healing. Non-catalytic subunit of an acetylhydrolase complex which inactivates platelet-activating factor (PAF) by removing the acetyl group at the SN-2 position. Required for dynein recruitment to microtubule plus ends and BICD2-bound cargos. May modulate the Reelin pathway through interaction of the PAF-AH (I) catalytic dimer with VLDLR.

Molecular Mass	46.7 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Pafah1b1 platelet-activating factor acetylhydrolase, isoform 1b, subunit 1 [<i>Mus musculus</i> (house mouse)]
Official Symbol	Pafah1b1
Synonyms	Pafah1b1; platelet-activating factor acetylhydrolase, isoform 1b, subunit 1; L; LI; Pa; Mds; Lis1; Mdsh; LIS-1; Ms10u; Pafaha; MMS10-U; platelet-activating factor

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acetylhydrolase IB subunit beta; PAF acetylhydrolase 45 kDa subunit; PAF-AH 45 kDa subunit; PAF-AH alpha; PAFAH alpha; Pafaha/Lis1; lissencephaly-1 protein; platelet-activating factor acetylhydrolase 1b, regulatory subunit 1; platelet-activating factor acetylhydrolase 45kD subunit; platelet-activating factor acetylhydrolase IB subunit alpha; truncated form platelet-activating factor acetylhydrolase 45kD subunit; EC 3.1.1.47

Gene ID 18472

mRNA Refseq NM_013625

Protein Refseq NP_038653

UniProt ID P63005

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