

Active Recombinant Mouse Pdgfa protein, His-tagged

Cat. No. Pdgfa-564M Lot. No. (See product label)

SPECIFICATION

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|-------------------------|---|
| Product Overview | Active Recombinant Mouse Pdgfa protein(P20033)(90~190 aa), fused with N-terminal His tag, was expressed in E.coli. |
| Species | Mouse |
| Source | E.coli |
| ProteinLength | 90-190 aa |
| Form | Lyophilized from sterile 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300. |
| Bio-activity | <p>PDGFA (Platelet-derived growth factor subunit A) is a Growth factor that plays an essential role in the regulation of embryonic development, cell proliferation, cell migration, survival and chemotaxis. PDGFA has been described as a chemoattractant for monocytes and proven to be able to induce chemotactic migration of THP-1 cells. Therefore, chemotaxis assay used 24-well microchemotaxis system was undertaken to detect the chemotactic effect of PDGFA on the human monocytic cell line THP-1. Briefly, THP-1 cells were seeded into the upper chambers (100uL cell suspension, 106cells/mL in RPMI 1640 with 0.5% FBS) and PDGFA (1.5ng/mL, 7.5ng/mL and 15ng/mL diluted separately in serum free RPMI 1640) was added in lower chamber with a polycarbonate filter (8µm pore size) used to separate the two compartments. After incubation at 37°C with 5%CO2 for 3h, the filter was removed, then cells in low chamber were observed by inverted microscope at low magnification</p> |

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(×40) and the number of migrated cells were counted at high magnification (×400) randomly (five fields for each filter). Result shows PDGFA is able to induce migration of THP-1 cells. The migrated THP-1 cells in low chamber at low magnification (×40) were shown. Five fields of each chamber were randomly chosen, and the migrated cells were counted at high magnification (×400). Statistical results were shown. The optimum chemotaxis of PDGFA occurs at 1.5ng/mL.

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| Molecular Mass | 15.2kDa |
| Endotoxin | <1.0EU per 1µg (determined by the LAL method). |
| Purity | > 97% as determined by SDS-PAGE. |
| Storage | Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months. |
| Reconstitution | Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex. |

GENE INFORMATION

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|------------------------|---|
| Gene Name | Pdgfa platelet derived growth factor, alpha [Mus musculus] |
| Official Symbol | Pdgfa |
| Synonyms | PDGFA; platelet derived growth factor, alpha; platelet-derived growth factor subunit A; PDGF-1; PDGF subunit A; platelet-derived growth factor A chain; platelet-derived growth factor alpha polypeptide; |
| Gene ID | 18590 |

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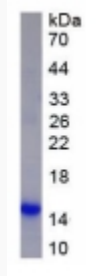
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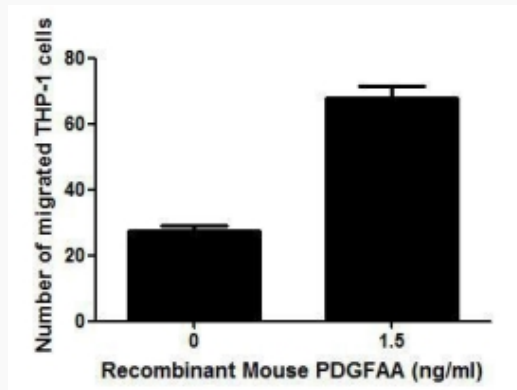
mRNA Refseq [NM_008808](#)

Protein Refseq [NP_032834](#)

SDS-PAGE



Activity



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