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Product Datasheet

Mouse PDGFA protein, His tag (active), Unconjugated GTX00292-PRO

Article Name	Mouse PDGFA protein, His tag (active), Unconjugated
Biozol Catalog Number	GTX00292-PRO
Supplier Catalog Number	GTX00292-pro
Alternative Catalog Number	GTX00292-PRO-10
Manufacturer	GeneTex
Category	Proteine/Peptide
Application	FA
Species Reactivity	Mouse
Conjugation	Unconjugated
NCBI	18590
UniProt	P20033
Buffer	Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose, ProClin 300.
Expression System	E. coli
Form	Lyophilized powder
Sequence	N-terminal His-Tag, Ala94~Asp194 (NP_032834.1)

Application Notes

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 (100 μ l cell suspension, 1×10^6 cells/ml in RPMI-1640 with 0.5% FBS) and PDGFA (1.5 ng/ml, 7.5 ng/ml and 15 ng/ml diluted separately in serum free RPMI-1640) was added in lower chamber with a polycarbonate filter (8 μ m 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 ($\times 40$) and the number of migrated cells were counted at high magnification ($\times 400$) randomly. PDGFA is able to induce migration of THP-1 cells, and the optimum chemotaxis of PDGFA occurs at 1.5 ng/ml.