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Product Datasheet

Human MIP1 alpha protein, His tag (active), Unconjugated GTX00096-PRO

Article Name	Human MIP1 alpha protein, His tag (active), Unconjugated
Biozol Catalog Number	GTX00096-PRO
Supplier Catalog Number	GTX00096-pro
Alternative Catalog Number	GTX00096-PRO-10
Manufacturer	GeneTex
Category	Proteine/Peptide
Application	FA
Species Reactivity	Human
Conjugation	Unconjugated
NCBI	6348
UniProt	P10147
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	HEK293 cells
Form	Lyophilized powder
Sequence	N-terminal His-Tag, Ser24~Ala92 (NP_002974.1)

Application Notes

MIP-1a (macrophage inflammatory protein 1-alpha) also known as Chemokine (C-C motif) ligand 3 (CCL3), is a cytokine belonging to the CC chemokine family that is involved in the recruitment and activation of macrophages, monocytes and neutrophils. In this case, chemotaxis assay used 24-well microchemotaxis system was undertaken to evaluate the chemotactic effect of MIP-1a 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 MIP-1a (100 ng/ml, diluted 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 5h, 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 (five fields for each filter). By counting migrated cells in low chamber at high magnification ($\times 400$) randomly. A mean of 41.2 THP-1 cells/field migrated towards serum free RPMI-1640 medium with 100 ng/ml MIP-1a, while only 3.6 THP-1 cells/field migrated towards serum free RPMI-1640 medium.