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Product Datasheet

Human MIP1 beta protein, His tag (active), Unconjugated GTX00279-PRO

Article Name	Human MIP1 beta protein, His tag (active), Unconjugated
Biozol Catalog Number	GTX00279-PRO
Supplier Catalog Number	GTX00279-pro
Alternative Catalog Number	GTX00279-PRO-10
Manufacturer	GeneTex
Category	Proteine/Peptide
Application	FA
Species Reactivity	Human
Conjugation	Unconjugated
NCBI	6351
UniProt	P13236
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, Ala24~Asn92 (NP_002975.1)

Application Notes	Macrophage inflammatory protein-1beta (MIP-1beta), also known as CCL4 is a CC chemokine with specificity for CCR5 receptors. It is a chemoattractant for natural killer cells, monocytes and a variety of other immune cells. MIP-1beta is a kind of chemotactic cytokine. Thus, chemotaxis assay used 24-well microchemotaxis system was undertaken to detect the chemotactic effect of MIP-1beta on the human T-lymphocyte leukemia cell line Jurkat. Briefly, Jurkat cells were seeded into the upper chambers (100 µl cell suspension, 5x10⁵ cell/ml in RPMI-1640 with FBS free) and recombinant human MIP-1beta (0. 0001 ng/ml, 0. 001 ng/ml, 0. 1 ng/ml, 1 ng/ml, 10 ng/ml, 100 ng/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 37C with 5% CO₂ for 2h, the filter was removed, then cells in low chamber were observed by inverted microscope at low magnification (*100) and the number of migrated cells were counted at high magnification (*200) randomly. The recombinant human MIP-1beta is able to induce migration of Jurkat cells.
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