

Please note: This document was created automatically and is not a substitute for the manufacturer's original document.

## 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                       | <a href="#">6351</a>                                                                                                                                                        |
| UniProt                    | <a href="#">P13236</a>                                                                                                                                                      |
| 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, 5x10<sup>5</sup> 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% CO<sub>2</sub> 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.