

Human MIP1 alpha protein, His tag (active)

Cat. No. GTX00096-pro

Applications	Functional Assay	Package
Species	Human	10 µg

Applications

Application Note

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 µl cell suspension, 1x10⁶ 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 (8µm 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 (x40) and the number of migrated cells were counted at high magnification (x400) randomly (five fields for each filter). By counting migrated cells in low chamber at high magnification (x400) 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.

Observed MW (kDa) 14 kDa.

Properties

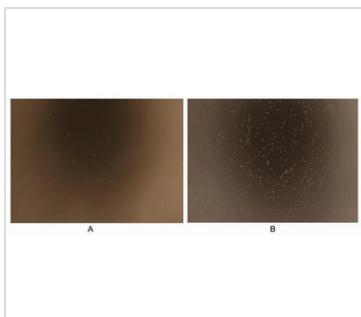
Form	Lyophilized powder
Buffer	Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose.
Preservative	ProClin 300
Storage	For short-term storage (1-2 weeks), store at 4°C. For long-term storage, store at -20°C or below. After reconstitution, keep as concentrated solution. Avoid freeze-thaw cycles.
Region/Sequence	N-terminal His-Tag; Ser24~Ala92 (NP_002974.1)
Expression System	HEK293 cells
Purity	> 95%
Endotoxin	< 1 EU/µg
Conjugation	Unconjugated
Note	For laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.



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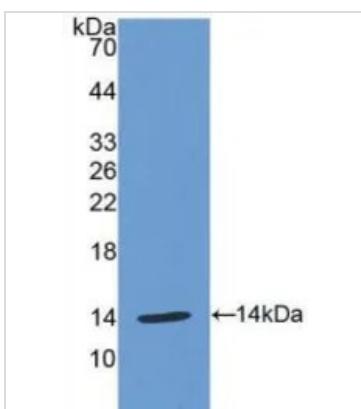
DATA IMAGES

**GTX00096-pro Functional Assay Image**

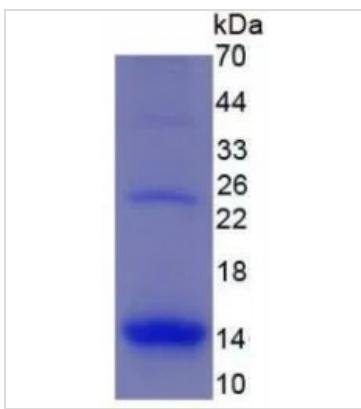
The chemotactic effect of GTX00096-pro Human MIP1 alpha protein (active).

(A) THP-1 cells were seeded into the upper chambers and serum free RPMI-1640 without MIP-1 alpha was added in lower chamber, then cells in lower chamber were observed at low magnification ($\times 40$) after incubation for 5hrs.

(B) THP-1 cells were seeded into the upper chambers and serum free RPMI-1640 with 100 ng/ml MIP-1 alpha was added in lower chamber, then cells in lower chamber were observed at low magnification ($\times 40$) after incubation for 5hrs.

**GTX00096-pro Image**

WB analysis of GTX00096-pro Human MIP1 alpha protein (active).

**GTX00096-pro Image**

SDS-PAGE analysis of GTX00096-pro Human MIP1 alpha protein (active).



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