

Datasheet for ABIN6239737
CCL3 Protein (AA 24-92) (His tag)



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1 Image

Overview

Quantity:	50 µg
Target:	CCL3
Protein Characteristics:	AA 24-92
Origin:	Human
Source:	HEK-293 Cells
Biological Activity:	Active
Purification tag / Conjugate:	This CCL3 protein is labelled with His tag.
Application:	Activity Assay (AcA), Cell Culture (CC)

Product Details

Characteristics:	Tag location: N-terminal His Tag
Purity:	> 95 %
Biological Activity Comment:	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 THP1. Briefly, THP1 cells were seeded into the upper chambers (100µl cell suspension, 106 cells/ml in RPMI 1640 with 0.5% FBS) and MIP-1a (100ng/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 37oC 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

Product Details

were counted at high magnification (x400) randomly (five fields for each filter). By counting migrated cells in low chamber at high magnification (x400) randomly, it was shown that a mean of 41.2 THP1 cells/field migrated towards serum free RPMI 1640 medium with 100ng/mL MIP-1a, while only 3.6 THP1 cells/field migrated towards serum free RPMI 1640 medium. And the migrated THP1 cells in low chamber at low magnification (x40) was shown in Figure 1.

Target Details

Target:	CCL3
Alternative Name:	Macrophage Inflammatory Protein 1 Alpha (MIP1a) (CCL3 Products)
Background:	Alternative Names: CCL3, MIP1-A, SCYA3, Chemokine C-C-Motif Ligand 3, Small Inducible Cytokine A3, Homologous To Mouse Mip-1a, Tonsillar Lymphocyte LD78 Alpha Protein
Molecular Weight:	14kDa
UniProt:	P10147
Pathways:	Cellular Response to Molecule of Bacterial Origin, Autophagy

Application Details

Application Notes:	Isoelectric Point: 4.8
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	20 mM Tris, 150 mM NaCl, pH 8.0, containing 1 mM EDTA, 1 mM DTT, 0.01 % SKL, 5 % Trehalose and Proclin300.
Preservative:	Dithiothreitol (DTT), Other preservative, ProClin
Precaution of Use:	This product contains ProClin and Dithiothreitol (DTT): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.

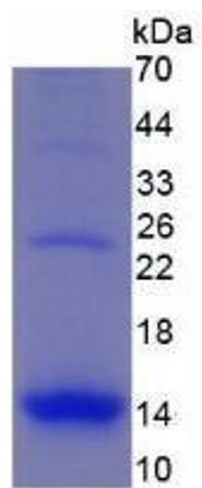


Image 1.