

Monocyte Chemotactic Protein 4 (MCP4) Active Protein | MCP4 active protein

Active Monocyte Chemotactic Protein 4 (MCP4)

CATALOG # AAA146618	HOST Yeast	APPLICATIONS Activity Assay, Cell Culture
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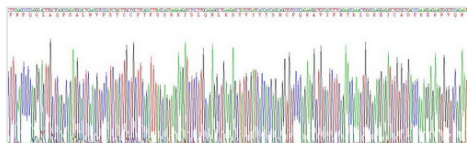
PRODUCT SYNONYMS

Monocyte Chemotactic Protein 4 (MCP4); Active Monocyte Chemotactic Protein 4 (MCP4); CCL13; SCYA13; NCC1; SCYL1; CKb10; Chemokine C-C-Motif Ligand 13; Small Inducible Cytokine Subfamily A(Cys-Cys)Member 13; CK-beta-10; Monocyte chemoattractant 4; MCP4 active protein

PRODUCT SPECIFICATIONS

Host	Yeast
Purity/Purification	> 95%
Form/Format	Freeze-dried powder
Sequence Length	98
Applicable Applications for MCP4 active protein	Activity Assay, Cell Culture
Fragment	Phe17~Thr98
Tag	N-terminal His Tag
Buffer Formulation	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Organism Species	Human
Usage	Reconstitute in 20mM Tris, 150mM NaCl (PH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

IMAGES



Application Data

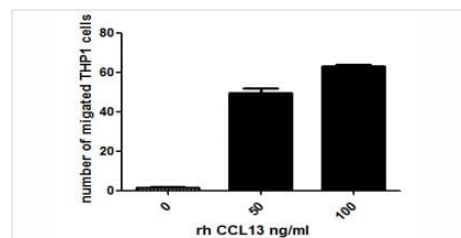
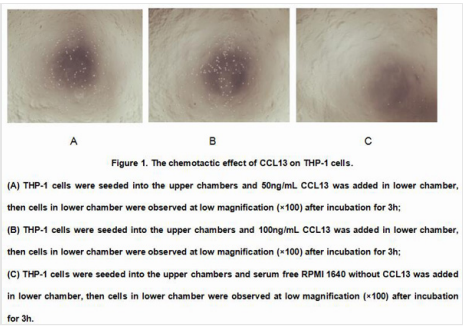


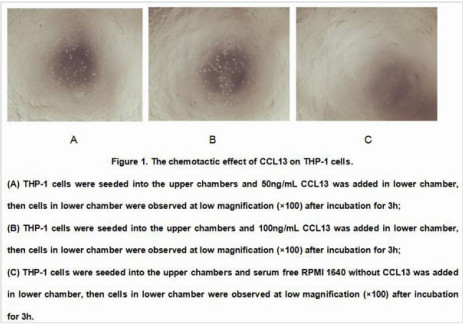
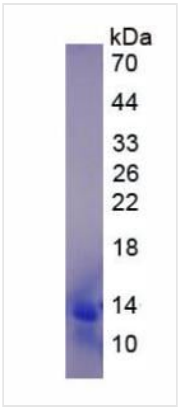
Figure 2. The chemotactic effect of CCL13 on THP-1 cells.

Application Data



Application Data

SDS-PAGE



Activity

CCL13 (C-C motif chemokine 13) is a chemotactic factor that attracts monocytes, lymphocytes, basophils and eosinophils, which belongs to the CC chemokine subfamily. It has been reported that CCL13 can induce chemotactic migration of THP-1 cells. Therefore, chemotaxis assay used 24-well microchemotaxis system was undertaken to detect the chemotactic effect of CCL13 on the human monocytic cell line THP-1. Briefly, THP-1 cells were seeded into the upper chambers (100uL cell suspension, 106 cells/mL in RPMI 1640 with 0.5% FBS) and CCL13 (50ng/mL and 100ng/mL diluted separately in serum free RPMI 1640) was added in lower chamber with a polycarbonate filter (8um pore size) used to separate the two compartments. After incubation at 37oC with 5% CO2 for 3h, 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 (×400) randomly (five fields for each filter).Result: CCL13 is able to induce migration of THP-1 cells. The migrated THP-1 cells in low chamber at low magnification (×100) were shown in Figure 1. Five fields of each chamber were randomly chosen to count the migrated cells at high magnification (×400) and the statistical data was shown in Figure 2.

ADDITIONAL INFORMATION

Product Categories/Family for MCP4 active protein	Active Protein
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4885587
NCBI GeneID	6357
NCBI Accession #	NP_005399.1
NCBI GenBank Nucleotide #	NM_005408.2
UniProt Accession #	Q99616; O95689; Q6ICQ6
Molecular Weight	10.7kDa; 11kDa
NCBI Official Full Name	C-C motif chemokine 13
NCBI Official Synonym Full Names	C-C motif chemokine ligand 13

NCBI Official Symbol	CCL13
NCBI Official Synonym Symbols	NCC1; CKb10; MCP-4; NCC-1; SCYL1; SCYA13
NCBI Protein Information	C-C motif chemokine 13
UniProt Protein Name	C-C motif chemokine 13
UniProt Gene Name	CCL13
UniProt Synonym Gene Names	MCP4; NCC1; SCYA13; MCP-4

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/yeast-active-protein/monocyte-chemotactic-protein-4-mcp4/146618>