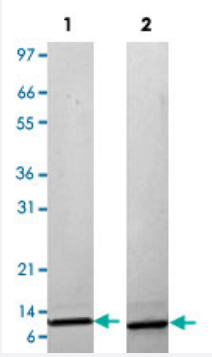
Bioactive

CCL13 (Human) Recombinant Protein

Catalog # P4425 Size 20 ug

Applications



Lane 1: non-reducing conditions
Lane 2: reducing conditions

Result of activity analysis

Result of activity analysis

Human THP-1 cells were allowed to migrate to human CCL13 at (0, 0.1, 1, 10, 100 and 1000 ng/mL). After 45 minutes, cells that migrated were counted using a luminescent substrate and displayed on the bar graph above.

Specification

Product Description	Human CCL13 (Q99616) recombinant protein expressed in *Escherichia coli*.
Sequence	QPDALNVPSTCCFTFSSKKISLQRLKSYVITTSRCPQKAVIFRTKLGKEICADPKEKWVQNYMKHL GRKAHTLKT
Host	Escherichia coli
Theoretical MW (kDa)	8.5
Form	Lyophilized
Preparation Method	*Escherichia coli* expression system
Endotoxin Level	< 0.1 EU/ug

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Activity	The activity is determined by the ability of MCP-4 to chemoattract human THP-1 cells and is detectable starting at 1 ug/mL.
Quality Control Testing	1 ug/lane in 4-20% Tris-Glycine gel Stained with Coomassie Blue Lane 1: non-reducing conditions Lane 2: reducing conditions
Storage Buffer	No additive
Storage Instruction	Store at -20°C on dry atmosphere. After reconstitution with sterilized water, store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Note	Result of activity analysis Result of activity analysis Human THP-1 cells were allowed to migrate to human CCL13 at (0, 0.1, 1, 10, 100 and 1000 ng/mL). After 45 minutes, cells that migrated were counted using a luminescent substrate and displayed on the bar graph above.

Applications

- Functional Study
- SDS-PAGE

Gene Info — CCL13

Entrez GeneID	6357
Protein Accession#	Q99616
Gene Name	CCL13
Gene Alias	CKb10, MCP-4, MGC17134, NCC-1, NCC1, SCYA13, SCYL1
Gene Description	chemokine (C-C motif) ligand 13
Omim ID	601391
Gene Ontology	Hyperlink

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Gene Summary	This gene is one of several Cys-Cys (CC) cytokine genes clustered on the q-arm of chromosome 17. Cytokines are a family of secreted proteins involved in immunoregulatory and inflammatory pr ocesses. The CC cytokines are proteins characterized by two adjacent cysteines. The cytokine e ncoded by this gene displays chemotactic activity for monocytes, lymphocytes, basophils and eos inophils, but not neutrophils. This chemokine plays a role in accumulation of leukocytes during infla mmation. It may also be involved in the recruitment of monocytes into the arterial wall during arther osclerosis. [provided by RefSeq
Other Designations	CK-beta-10|monocyte chemoattractant protein 4|monocyte chemotactic protein 4|new CC chemo kine 1|small inducible cytokine A13|small inducible cytokine subfamily A (Cys-Cys), member 13

Pathway

- Chemokine signaling pathway
- Cytokine-cytokine receptor interaction

Disease

- Arthritis
- Asthma
- Birth Weight
- Bronchiolitis
- Encephalomyelitis
- Genetic Predisposition to Disease
- Glioblastoma
- Glioma
- HIV Infections
- Infant
- Leukemia
- Meningeal Neoplasms
- Meningioma
- Multiple Sclerosis

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- Ovarian Neoplasms
- Respiratory Syncytial Virus Infections

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