Bioactive

CCL8 (Human) Recombinant Protein

Catalog # P9513 Size 2 x 10 ug

Specification

Product Description	Human CCL8 (P80075, 24 a.a. - 99 a.a.) partial recombinant protein expressed in *Escherichia coli*.
Sequence	QPDSVSIPITCCFNVINRKIPIQRLESYTRITNIQCPKEAVIFKTKRGKEVCADPKERWVRDSMKHLD QIFQNLKP
Host	Escherichia coli
Theoretical MW (kDa)	8.9
Form	Lyophilized
Preparation Method	*Escherichia coli* expression system
Purity	> 95.0% by SDS-PAGE
Activity	The ED_{50} is 30 - 100 ng/mL was determined by measuring the dose dependent mobilization of intrac ellular calcium (calcium flux) with human THP-1 cells, corresponding to a specific activity of 10000 - 3 3334 IU/mg. Significant calcium mobilization is observed with 500 ng/mL of recombinant human MC P-2.
Recommend Usage	Biological Activity SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from sterile distilled Water is > 100 ug/mL
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- SDS-PAGE

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Gene Info — CCL8

Entrez GeneID	6355
Protein Accession#	P80075
Gene Name	CCL8
Gene Alias	HC14, MCP-2, MCP2, SCYA10, SCYA8
Gene Description	chemokine (C-C motif) ligand 8
Omim ID	602283
Gene Ontology	Hyperlink
Gene Summary	This gene is one of several cytokine genes clustered on the q-arm of chromosome 17. Cytokines are a family of secreted proteins involved in immunoregulatory and inflammatory processes. The protein encoded by this gene is structurally related to the CXC subfamily of cytokines. Members o f this subfamily are characterized by two cysteines separated by a single amino acid. This cytokin e displays chemotactic activity for monocytes, lymphocytes, basophils and eosinophils. By recruiti ng leukocytes to sites of inflammation this cytokine may contribute to tumor-associated leukocyte i nfiltration and to the antiviral state against HIV infection. [provided by RefSeq
Other Designations	monocyte chemoattractant protein 2|monocyte chemotactic protein 2|small inducible cytokine A8| small inducible cytokine subfamily A (Cys-Cys), member 8 (monocyte chemotactic protein 2)

Pathway

- Chemokine signaling pathway
- Cytokine-cytokine receptor interaction

Disease

- Alzheimer disease
- Arthritis
- Asthma
- Birth Weight
- Bronchiolitis

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- Connective Tissue Diseases
- Dementia
- Encephalomyelitis
- Fetal Diseases
- Genetic Predisposition to Disease
- Glioblastoma
- Glioma
- Hepatitis C
- HIV Infections
- Infant
- Infection
- Inflammation
- Leukemia
- Liver Cirrhosis
- Lupus Erythematosus
- Lymphoma
- Meningeal Neoplasms
- Meningioma
- Multiple Sclerosis
- Musculoskeletal Diseases
- Osteoporosis
- Pregnancy Complications
- Premature Birth
- Respiratory Syncytial Virus Infections
- Skin Diseases

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