

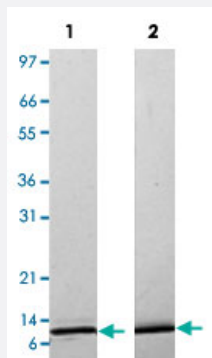
Bioactive

CCL7 (Human) Recombinant Protein

Catalog # P4424

Size 10 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 CCL7 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 CCL7 (Q7Z7Q8) recombinant protein expressed in <i>Escherichia coli</i> .
Sequence	QPVGINSTTCCYRFINKKIPKQRLESYRRTTSSHCPREAVIFKTKLDKEICADPTQKWWQDFMKHL DKKTQTPKL
Host	<i>Escherichia coli</i>
Theoretical MW (kDa)	9
Form	Lyophilized
Preparation Method	<i>Escherichia coli</i> expression system
Endotoxin Level	< 0.1 EU/ug

Activity	The activity is determined by the ability of MCP-3 to chemoattract THP-1 cells and is detectable starting at 10 ng/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 CCL7 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 — CCL7

Entrez GeneID	6354
Protein Accession#	Q7Z7Q8
Gene Name	CCL7
Gene Alias	FIC, MARC, MCP-3, MCP3, MGC138463, MGC138465, NC28, SCYA6, SCYA7
Gene Description	chemokine (C-C motif) ligand 7
Omim ID	158106
Gene Ontology	Hyperlink

Gene Summary

This gene encodes monocyte chemotactic protein 3, a secreted chemokine which attracts macrophages during inflammation and metastasis. It is a member of the C-C subfamily of chemokines which are characterized by having two adjacent cysteine residues. The protein is an in vivo substrate of matrix metalloproteinase 2, an enzyme which degrades components of the extracellular matrix. This gene is part of a cluster of C-C chemokine family members on chromosome 17q. [provided by RefSeq]

Other Designations

monocyte chemoattractant protein 3|monocyte chemotactic protein 3|small inducible cytokine A7 (monocyte chemotactic protein 3)

Publication Reference

- [CHI3L1 signaling impairs hippocampal neurogenesis and cognitive function in autoimmune-mediated neuroinflammation.](#)

Wei Jiang, Fan Zhu, Huiming Xu, Li Xu, Haoyang Li, Xin Yang, Shabbir Khan Afridi, Shuiqing Lai, Xiusheng Qiu, Chunxin Liu, Huilu Li, Youming Long, Yuge Wang, Kevin Connolly, Jack A Elias, Chun Geun Lee, Yaxiong Cui, Yu-Wen Alvin Huang, Wei Qiu, Changyong Tang.

Science Advances 2023 Sep; 9(39):eadg8148.

Application: Cell Culture, Mouse, Mouse neural stem cells

Pathway

- [Chemokine signaling pathway](#)
- [Cytokine-cytokine receptor interaction](#)

Disease

- [Arthritis](#)
- [Asthma](#)
- [Birth Weight](#)
- [Bronchiolitis](#)
- [Crohn Disease](#)
- [Disease Progression](#)
- [Encephalomyelitis](#)

- [Genetic Predisposition to Disease](#)
- [Glioblastoma](#)
- [Glioma](#)
- [HIV Infections](#)
- [Infant](#)
- [Leukemia](#)
- [Meningeal Neoplasms](#)
- [Meningioma](#)
- [Multiple Sclerosis](#)
- [Ovarian Neoplasms](#)
- [Respiratory Syncytial Virus Infections](#)