Bioactive

# CCL7 (Human) Recombinant Protein

Catalog # P7391 Size 10 ug

## Specification

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|---|---|
| **Product Description** | Human CCL7 (Q7Z7Q8, 34 a.a. - 109 a.a.) partial recombinant protein expressed in CHO cells. |
| **Sequence** | QPVGINTSTTCCYRFINKKIPKQRLESYRRTTSSHCPREAVIFKTKLDKEICADPTQKWVQDFMKHL DKKTQTPKL |
| **Host** | Mammals |
| **Theoretical MW (kDa)** | 10 ~ 18 |
| **Form** | Lyophilized |
| **Preparation Method** | _x005F_x000D__x000D_ Mammalian cell (CHO) expression system_x005F_x000D__x000D_ |
| **Purity** | > 98% as analyzed by SDS-PAGE. |
| **Endotoxin Level** | < 0.2 EU/ ug of protein (gel clotting method) |
| **Activity** | Human CCL7 $EC_{50}$ < 1.5 ug/mL, measured on $Ca^{2+}$ mobilization assay in CHO-K1/ Galpha15/hCC R1 cells (human Galpha15 and human CCR1 stably expressed in CHO-K1 cells). |
| **Recommend Usage** | Biological Activity<br>SDS-PAGE<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | Lyophilized from PBS. Reconstitute the lyophilized powder in dd$H_2O$ up to 100 ug/mL. |
| **Storage Instruction** | Store at 4°C for 1 week. For long term storage store at -20°C to -80°C.<br>Aliquot to avoid repeated freezing and thawing. |

## Applications

- Functional Study
- SDS-PAGE

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## Gene Info — CCL7

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|---|---|
| **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 macro phages 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 substr ate of matrix metalloproteinase 2, an enzyme which degrades components of the extracellular mat rix. This gene is part of a cluster of C-C chemokine family members on chromosome 17q. [provid ed by RefSeq |
| **Other Designations** | monocyte chemoattractant protein 3\|monocyte chemotactic protein 3\|small inducible cytokine A7 ( monocyte chemotactic protein 3) |

## Pathway

- Chemokine signaling pathway
- Cytokine-cytokine receptor interaction

## Disease

- Arthritis
- Asthma
- Birth Weight
- Bronchiolitis
- Crohn Disease

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- Disease Progression
- Encephalomyelitis
- Genetic Predisposition to Disease
- Glioblastoma
- Glioma
- HIV Infections
- Infant
- Leukemia
- Meningeal Neoplasms
- Meningioma
- Multiple Sclerosis
- Ovarian Neoplasms
- Respiratory Syncytial Virus Infections

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