Bioactive

# CSF1 (Human) Recombinant Protein

Catalog # P7105 Size 10 ug

## Applications

### Result of activity analysis

Result of activity analysis

## Specification

| | |
|---|---|
| **Product Description** | Human CSF1 (P09603, 33 a.a - 190 a.a) partial recombinant protein expressed in CHO cells. |
| **Sequence** | EEVSEYCSHMIGSGHLQSLQRLIDSQMETSCQITFEFVDQEQLKDPVCYLKKAFLLVQDIMEDTMR FRDNTPNAIAIVQLQELSLRLKSCFTKDYEEHDKACVRTFYETPLQLLEKVKNVFNETKNLLDKDW NIFSKNCNNSFAECSSQDVVTKPDCN |
| **Host** | Mammals |
| **Theoretical MW (kDa)** | 32 - 40 |
| **Form** | Lyophilized |
| **Preparation Method** | Mammalian cell (CHO) expression system |
| **Purity** | > 95% as analyzed by SDS-PAGE.<br>> 95% as analyzed by HPLC. |
| **Endotoxin Level** | < 0.2 EU/ug of protein(gel clotting method) |
| **Activity** | $ED_{50}$ < 5.0 ng/mL, measured in a cell proliferation assay using Murine M-NFS-60 cells, corresponding to a specific activity of > $2.0 \times 10^5$ units/mg. |

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|---|---|
| **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 to 8°C for 1 week. For long term storage store at -20°C to -80°C.<br>Aliquot to avoid repeated freezing and thawing. |
| **Note** | Result of activity analysis<br>Result of activity analysis |

## Applications

- Functional Study
- SDS-PAGE

## Gene Info — CSF1

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|---|---|
| **Entrez GeneID** | 1435 |
| **Protein Accession#** | P09603 |
| **Gene Name** | CSF1 |
| **Gene Alias** | MCSF, MGC31930 |
| **Gene Description** | colony stimulating factor 1 (macrophage) |
| **Omim ID** | 120420 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | The protein encoded by this gene is a cytokine that controls the production, differentiation, and fun ction of macrophages. The active form of the protein is found extracellularly as a disulfide-linked h omodimer, and is thought to be produced by proteolytic cleavage of membrane-bound precursors . The encoded protein may be involved in development of the placenta. Four transcript variants en coding three different isoforms have been found for this gene. [provided by RefSeq |
| **Other Designations** | OTTHUMP00000013362\|OTTHUMP00000013363\|OTTHUMP00000013364\|colony stimulating f actor 1\|macrophage colony stimulating factor |

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## Pathway

- Cytokine-cytokine receptor interaction
- Hematopoietic cell lineage

## Disease

- Alzheimer disease
- Cardiovascular Diseases
- Chorioamnionitis
- Coronary Artery Disease
- Diabetes Mellitus
- Edema
- Fetal Membranes
- Genetic Predisposition to Disease
- Inflammation
- Kidney Failure
- Neoplasms
- Obstetric Labor
- Osteitis Deformans
- Ovarian Neoplasms
- Periodontitis
- Pre-Eclampsia
- Premature Birth

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