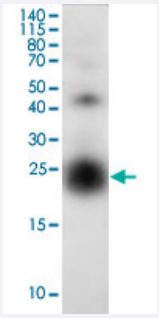
Bioactive | Full-Length | Sm Size

# CSF1 (Human) Recombinant Protein

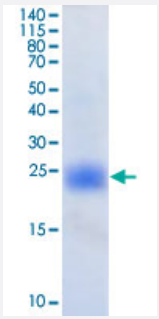
Catalog # P5818 Size 100 ug, 50 ug, 10 ug

## Applications




### Western Blot (Recombinant protein)

Western blot analysis of CSF1 (Human) Recombinant Protein (Cat # P5818) using protein specific antibody.




### Result of activity analysis

Result of activity analysis

## Specification

| | |
|---|---|
| **Product Description** | Human CSF1 (159 a.a.) full-length recombinant protein with His tag expressed in Barley grain (*Hordeum vulgare*). |

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| | |
|---|---|
| **Host** | Plants |
| **Theoretical MW (kDa)** | 21 |
| **Form** | Lyophilized |
| **Preparation Method** | Barley grain (*Hordeum vulgare*) expression system |
| **Purification** | Chromatography |
| **Concentration** | 100 ug/mL |
| **Purity** | > 98% by SDS-PAGE |
| **Endotoxin Level** | Endotoxin level is less than 0.005ng per ug protein (0.05EU/ug) as measured by turbidimetric kinetic assay |
| **Activity** | Bioactivity is assayed by measuring the dose dependent effect of human MCSF on proliferation of M-NFS-60 cells. The $ED_{50}$ lies typically in the range of 0.51-0.76 ng/mL. |
| **Quality Control Testing** | SDS-PAGE Stained with Coomassie Blue |
| **Storage Buffer** | Lyophilized from 5 mM TrisHCl, 80 mM Arginine, pH 8.0 |
| **Storage Instruction** | Store at -20°C on dry atmosphere.<br>After reconstitution with sterile water to a concentration of no less than 100 ug/mL, store at -20°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).<br>Aliquot to avoid repeated freezing and thawing. |
| **Note** | Result of activity analysis<br>Result of activity analysis |

## Applications

- Functional Study
- Western Blot (Recombinant protein)

  Western blot analysis of CSF1 (Human) Recombinant Protein (Cat # P5818) using protein specific antibody.
- SDS-PAGE

## Gene Info — CSF1

| | |
|---|---|
| **Entrez GeneID** | 1435 |

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| | |
|---|---|
| **Protein Accession#** | BAD92189 |
| **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 function of macrophages. The active form of the protein is found extracellularly as a disulfide-linked homodimer, 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 encoding three different isoforms have been found for this gene. [provided by RefSeq |
| **Other Designations** | OTTHUMP00000013362\|OTTHUMP00000013363\|OTTHUMP00000013364\|colony stimulating factor 1\|macrophage colony stimulating factor |

## 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

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- Kidney Failure
- Neoplasms
- Obstetric Labor
- Osteitis Deformans
- Ovarian Neoplasms
- Periodontitis
- Pre-Eclampsia
- Premature Birth

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