

Bioactive

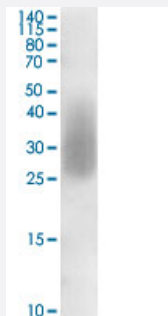
Full-Length

## CSF2 (Human) Recombinant Protein

Catalog # P5885

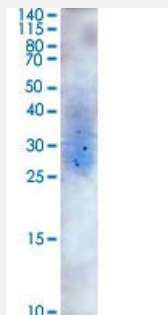
Size 10 ug, 50 ug, 100 ug

### Applications



#### Western Blot (Recombinant protein)

Western blot analysis of CSF2 (Human) Recombinant Protein (Cat # P5885) using protein specific antibody.



#### Result of activity analysis

Result of activity analysis

□

### Specification

#### Product Description

Human TNF (127 a.a.) full-length recombinant protein expressed in Barley grain (Hordeum vulgare). This protein is endotoxin-free and thus optimal to use in stem cell cultures.

|                         |                                                                                                                |
|-------------------------|----------------------------------------------------------------------------------------------------------------|
| Host                    | Plants                                                                                                         |
| Theoretical MW (kDa)    | 30, 38                                                                                                         |
| Reactivity              | Human                                                                                                          |
| Form                    | Lyophilized                                                                                                    |
| Preparation Method      | <i>Hordeum vulgare</i> (barley) expression system                                                              |
| Purification            | Chromatography                                                                                                 |
| Purity                  | > 95% by SDS-PAGE                                                                                              |
| Endotoxin Level         | Endotoxin level is less than 0.005ng per ug (0.05EU/ug) as measured by LAL assay.                              |
| Activity                | Activity has been measured by cell-based proliferation assay using TF-1 cells. ED <sub>50</sub> is 0.05 ng/mL. |
| Quality Control Testing | SDS-PAGE Stained with Coomassie Blue                                                                           |
| Storage Buffer          | Lyophilized from PBS, pH 7.2                                                                                   |
| Storage Instruction     | Store at -20°C.<br>Aliquot to avoid repeated freezing and thawing.                                             |
| Note                    | Result of activity analysis<br>Result of activity analysis                                                     |

## Applications

- Western Blot (Recombinant protein)

Western blot analysis of CSF2 (Human) Recombinant Protein (Cat # P5885) using protein specific antibody.

- Functional Study
- SDS-PAGE

## Gene Info — CSF2

|               |                             |
|---------------|-----------------------------|
| Entrez GeneID | <a href="#">1437</a>        |
| Gene Name     | CSF2                        |
| Gene Alias    | GMCSF, MGC131935, MGC138897 |

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene Description   | colony stimulating factor 2 (granulocyte-macrophage)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Omim ID            | <a href="#">138960</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Gene Ontology      | <a href="#">Hyperlink</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Gene Summary       | <p>The protein encoded by this gene is a cytokine that controls the production, differentiation, and function of granulocytes and macrophages. The active form of the protein is found extracellularly as a homodimer. This gene has been localized to a cluster of related genes at chromosome region 5q 31, which is known to be associated with interstitial deletions in the 5q- syndrome and acute myelogenous leukemia. Other genes in the cluster include those encoding interleukins 4, 5, and 13. [provided by RefSeq]</p> |
| Other Designations | colony stimulating factor 2 granulocyte-macrophage colony stimulating factor molgramostin sargramostim                                                                                                                                                                                                                                                                                                                                                                                                                              |

## Pathway

- [Cytokine-cytokine receptor interaction](#)
- [Fc epsilon RI signaling pathway](#)
- [Hematopoietic cell lineage](#)
- [Jak-STAT signaling pathway](#)
- [Natural killer cell mediated cytotoxicity](#)
- [T cell receptor signaling pathway](#)

## Disease

- [Alzheimer disease](#)
- [Asthma](#)
- [Atherosclerosis](#)
- [Blindness](#)
- [Brain Ischemia](#)
- [Bronchial Hyperreactivity](#)
- [Bronchiolitis](#)
- [Carcinoma](#)

- [Cardiovascular Diseases](#)
- [Chlamydia Infections](#)
- [Chorioamnionitis](#)
- [Coronary Artery Disease](#)
- [Coronary Disease](#)
- [Dermatitis](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Erythema Nodosum](#)
- [Esophagitis](#)
- [Fetal Membranes](#)
- [Genetic Predisposition to Disease](#)
- [Hypersensitivity](#)
- [Hypertension](#)
- [Infant](#)
- [Inflammation](#)
- [Kidney Failure](#)
- [Leukemia](#)
- [Lung Neoplasms](#)
- [Metabolic Syndrome X](#)
- [Migraine Disorders](#)
- [Neoplasms](#)
- [Neovascularization](#)
- [Obesity](#)

- [Obstetric Labor](#)
- [Osteoporosis](#)
- [Pain](#)
- [Pre-Eclampsia](#)
- [Pregnancy Complications](#)
- [Premature Birth](#)
- [Pulmonary Disease](#)
- [Radiation Injuries](#)
- [Radiation Pneumonitis](#)
- [Recurrence](#)
- [Respiratory Syncytial Virus Infections](#)
- [Rhinitis](#)
- [Sarcoidosis](#)
- [Stroke](#)
- [Thyroid Neoplasms](#)
- [Trachoma](#)
- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)