

Bioactive

## CSF3 (Human) Recombinant Protein

Catalog # P8706

Size 2 x 10 ug

### Specification

|                      |                                                                                                                                                                                   |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Description  | Human CSF3 recombinant protein with mPEG-ALD tag in N-terminus expressed in <i>Escherichia coli</i> .                                                                             |
| Host                 | <i>Escherichia coli</i>                                                                                                                                                           |
| Theoretical MW (kDa) | 38.8                                                                                                                                                                              |
| Form                 | Liquid                                                                                                                                                                            |
| Preparation Method   | <i>Escherichia coli</i> expression system                                                                                                                                         |
| Purification         | chromatographic                                                                                                                                                                   |
| Purity               | > 95% as determined by SEC-HPLC.                                                                                                                                                  |
| Activity             | ED <sub>50</sub> < 0.1 ng/mL, measured by the dose-dependant proliferation of murine NFS-60 indicator cells, corresponding to a specific activity of 1.0 x 10 <sup>7</sup> IU/mg. |
| Storage Buffer       | Solution (0.69 mg/mL) containing 10 mM Acetate Buffer, pH 4.0, 0.004% Polysorbate 80.                                                                                             |
| Storage Instruction  | Store at 4°C and should be kept in their packaging to protect from light. Avoid shaking and freezing.                                                                             |

### Applications

- Functional Study

### Gene Info — CSF3

|                    |                        |
|--------------------|------------------------|
| Entrez GeneID      | <a href="#">1440</a>   |
| Protein Accession# | <a href="#">P09919</a> |

|                    |                                                                                                                                                                                                                                                                                          |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene Name          | CSF3                                                                                                                                                                                                                                                                                     |
| Gene Alias         | G-CSF, GCSF, MGC45931                                                                                                                                                                                                                                                                    |
| Gene Description   | colony stimulating factor 3 (granulocyte)                                                                                                                                                                                                                                                |
| Omim ID            | <a href="#">138970</a>                                                                                                                                                                                                                                                                   |
| Gene Ontology      | <a href="#">Hyperlink</a>                                                                                                                                                                                                                                                                |
| Gene Summary       | The protein encoded by this gene is a cytokine that controls the production, differentiation, and function of granulocytes. The active protein is found extracellularly. Three transcript variants encoding three different isoforms have been found for this gene. [provided by RefSeq] |
| Other Designations | OTTHUMP00000164327 colony stimulating factor 3 filgrastim granulocyte colony stimulating factor lenograstim pluripoietin                                                                                                                                                                 |

## Pathway

- [Cytokine-cytokine receptor interaction](#)
- [Hematopoietic cell lineage](#)
- [Jak-STAT signaling pathway](#)

## Disease

- [Asthma](#)
- [Bronchiolitis](#)
- [Cardiovascular Diseases](#)
- [Carotid Stenosis](#)
- [Chorioamnionitis](#)
- [Coronary Artery Disease](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Fetal Membranes](#)
- [Genetic Predisposition to Disease](#)

- [Hematologic Diseases](#)
- [Infant](#)
- [Inflammation](#)
- [Leukemia](#)
- [Lung Neoplasms](#)
- [Lymphoma](#)
- [Neovascularization](#)
- [Obstetric Labor](#)
- [Occupational Diseases](#)
- [Pre-Eclampsia](#)
- [Premature Birth](#)
- [Pulmonary Disease](#)
- [Respiratory Syncytial Virus Infections](#)
- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)