

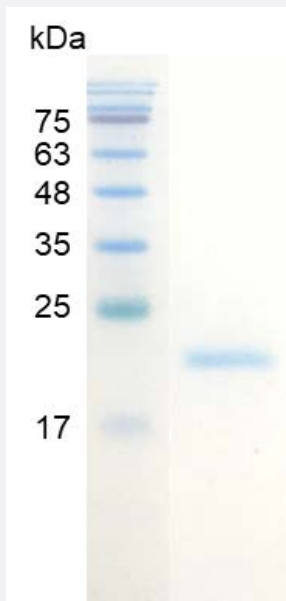
Bioactive

# CSF3 (Human) Recombinant Protein

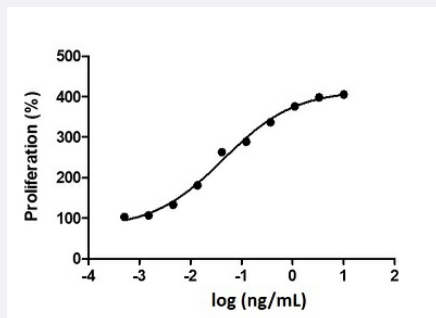
Catalog # P7860

Size 20 ug

## Applications



SDS-PAGE analysis of CSF3 (Human) Recombinant Protein.



## Result of activity analysis

Result of activity analysis

## Specification

### Product Description

Human CSF3 recombinant protein with polyhistidine tag at the N-terminus expressed in *Escherichia coli*.

### Sequence

TPLGPASSLPQSFLKCLEQVRKIQGDGAALQEKLKATYKLCHPPEELVLLGHSLGIPWAPLSSCP  
SQALQLAGCLSQHLHSGFLYQGLLQALEGISPELGPTLDTLQLDVADFATTWQQMEELGMAPAL  
QPTQGAMPAFASAFQRRAGGVLVASHLQSFLEVSRYVLRHLAQP with polyhistidine tag at the N-terminus.

|                         |                                                                                                                                                                               |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | Escherichia coli                                                                                                                                                              |
| Form                    | Lyophilized                                                                                                                                                                   |
| Preparation Method      | <i>Escherichia coli</i> expression system                                                                                                                                     |
| Purification            | Ni-NTA chromatography                                                                                                                                                         |
| Purity                  | > 98% as determined by SDS-PAGE.                                                                                                                                              |
| Endotoxin Level         | < 0.1 EU/ ug of protein by the LAL method.                                                                                                                                    |
| Activity                | ED <sub>50</sub> < 50 pg/mL, Measured by the induction of proliferation in NFS-60 cells. The specific activity of recombinant human G-CSF is > 2 x 10 <sup>7</sup> IU/mg.     |
| Quality Control Testing | SDS-PAGE Stained with Coomassie Blue.<br>SDS-PAGE analysis of CSF3 (Human) Recombinant Protein.                                                                               |
| Recommend Usage         | Biological Activity<br>SDS-PAGE<br>The optimal working dilution should be determined by the end user.                                                                         |
| Storage Buffer          | Lyophilized from a solution containing 1X PBS, pH 7.4. Reconstitute the lyophilized powder in ddH <sub>2</sub> O to 100 ug/mL.                                                |
| Storage Instruction     | Lyophilized protein should be stored at -20°C. Protein aliquots should be stored at -20°C to -80°C. The product is stable for one year.<br>Avoid repeated freeze/thaw cycles. |
| Note                    | Result of activity analysis<br>Result of activity analysis                                                                                                                    |

## Applications

- Functional Study
- SDS-PAGE

## Gene Info — CSF3

|               |                       |
|---------------|-----------------------|
| Entrez GeneID | <a href="#">1440</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 pluripoiectin                                                                                                                                                                |

## 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](#)