

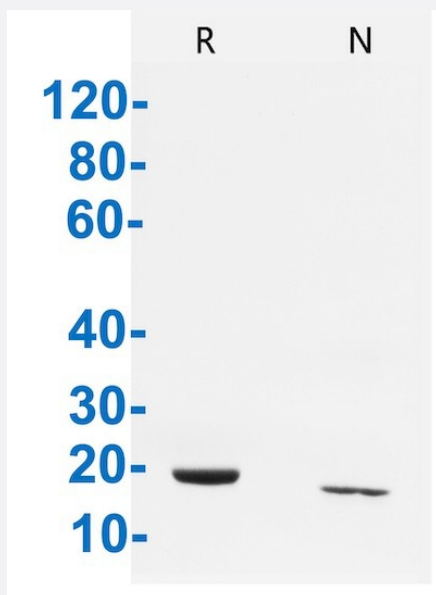
Bioactive

CSF3 (Human) Recombinant Protein

Catalog # P7300

Size 10 ug

Applications



2 ug of CSF3 (Human) Recombinant Protein (Cat # P7300) was resolved with SDS- PAGE under reducing (R) and non-reducing (N) conditions and visualized by Coomassie Blue staining

Result of activity analysis PAGE

Result of activity analysis
PAGE

Specification

Product Description

Human CSF3 (Q8N4W3, 27 a.a. - 200 a.a.) partial recombinant protein expressed in *Escherichia coli*.

Sequence

MHSALWTVQEATPLGPASSLPQSFLKCLEQVRKIQGDGAALQEKLCA^{TY}KLCHPEELVLLGHSL
GIPWAPLSSCPSQALQLAGCLSQLHSGFLYQGLLQALEGISPELGPTLDTLQLDVADFATTIWQQ
MEELGMAPALQPTQGAMPAFASAFQRRAGGVLVASHLQSFLEVS^{YR}VLRLHLAQP

Host	Escherichia coli
Theoretical MW (kDa)	18.8
Form	Lyophilized
Preparation Method	<i>Escherichia coli</i> expression system
Purity	> 95% as analyzed by SDS-PAGE. > 95% as analyzed by HPLC.
Endotoxin Level	< 0.2 EU/μg of protein by gel clotting method
Activity	ED ₅₀ < 0.1 ng/mL, measured by a cell proliferation assay of M-NFS-60 cells, corresponding to a specific activity of > 1.0 × 10 ⁷ IU/mg.
Recommend Usage	Biological Activity SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from PBS. Reconstitute the lyophilized powder in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL.
Storage Instruction	Store at 4°C to 8°C for 1 week. For long term storage store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of activity analysis PAGE Result of activity analysis PAGE

Applications

- Functional Study
- SDS-PAGE

Gene Info — CSF3

Entrez GeneID	1440
Protein Accession#	Q8N4W3
Gene Name	CSF3
Gene Alias	G-CSF, GCSF, MGC45931

Gene Description	colony stimulating factor 3 (granulocyte)
Omim ID	138970
Gene Ontology	Hyperlink
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](#)