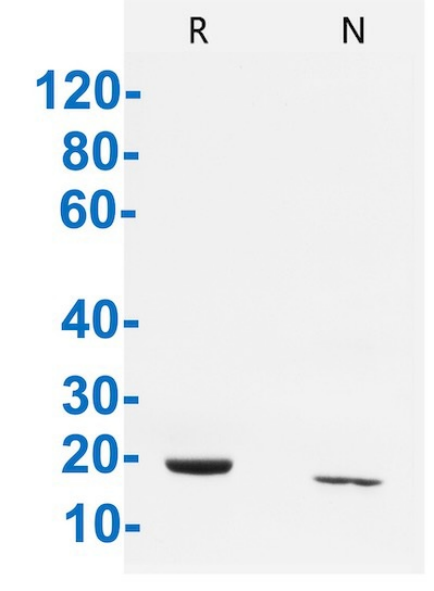
Bioactive

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	MHSALWTVQEATPLGPASSLPQSFLLKCLEQVRKIQGDGAALQEKLCATYKLCHPEELVLLGHSL GIPWAPLSSCPSQALQLAGCLSQLHSGLFLYQGLLQALEGISPELGPTLDTLQLDVADFATTIWQQ MEELGMAPALQPTQGAMPAFASAFQRRAGGVLVASHLQSFLEVSYRVLRHLAQP

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Host	Escherichia coli
Theoretical MW (kDa)	18.8
Form	Lyophilized
Preparation Method	*Escherichia coli* 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

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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 fun ction 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 facto r|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

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- 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

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