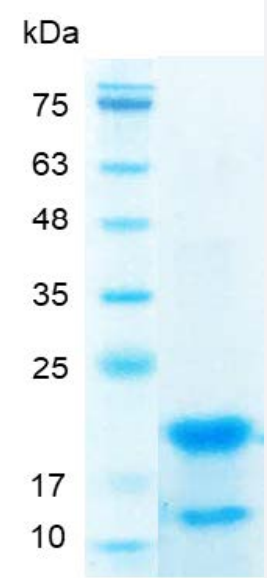
Bioactive

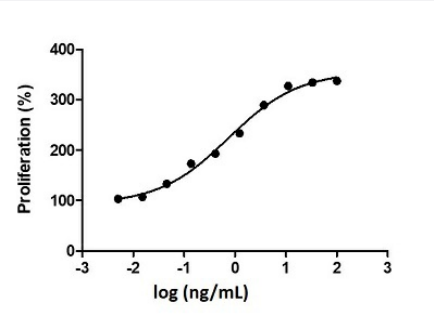
CSF1 (Human) Recombinant Protein

Catalog # P7857 Size 20 ug

Applications



SDS-PAGE analysis of CSF1 (Human) Recombinant Protein.



Result of activity analysis

Result of activity analysis

Specification

Product Description	Human CSF1 recombinant protein with polyhistidine tag at the C-terminus expressed in *Escherichia coli*.
Sequence	MEEVSEYCSHMIGSGHLQSLQRLIDSQMETSCQITFEFVDQEQLKDPVCYLKKAFLLVQDIMEDT MRFRDNTPNAIAIVQLQELSLRLKSCFTKDYEEHDKACVRTFYETPLQLLEKVKNVFNETKNLLDK DWNIFSKNCNNSFAECSSQGHERQSEGS with polyhistidine tag at the C-terminus.
Host	Escherichia coli

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Form	Lyophilized
Preparation Method	*Escherichia coli* 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_{50} < 1 ng/mL, Measured by the induction of proliferation in NFS-60 cells. The specific activity of re combinant human M-CSF is > 2.5 x 10^8 IU/mg.
Quality Control Testing	SDS-PAGE Stained with Coomassie Blue. SDS-PAGE analysis of CSF1 (Human) Recombinant Protein.
Recommend Usage	Biological Activity SDS-PAGE 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_2O 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. Th is product is stable for one year. Avoid repeated freeze/thaw cycles.
Note	Result of activity analysis Result of activity analysis

Applications

- Functional Study
- SDS-PAGE

Gene Info — CSF1

Entrez GeneID	1435
Gene Name	CSF1
Gene Alias	MCSF, MGC31930
Gene Description	colony stimulating factor 1 (macrophage)

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Omim ID	120420
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a cytokine that controls the production, differentiation, and function of macrophages. The active form of the protein is found extracellularly as a disulfide-linked homodimer, and is thought to be produced by proteolytic cleavage of membrane-bound precursors. The encoded protein may be involved in development of the placenta. Four transcript variants encoding three different isoforms have been found for this gene. [provided by RefSeq
Other Designations	OTTHUMP00000013362|OTTHUMP00000013363|OTTHUMP00000013364|colony stimulating factor 1|macrophage colony stimulating factor

Pathway

- Cytokine-cytokine receptor interaction
- Hematopoietic cell lineage

Disease

- Alzheimer disease
- Cardiovascular Diseases
- Chorioamnionitis
- Coronary Artery Disease
- Diabetes Mellitus
- Edema
- Fetal Membranes
- Genetic Predisposition to Disease
- Inflammation
- Kidney Failure
- Neoplasms
- Obstetric Labor
- Osteitis Deformans

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- Ovarian Neoplasms
- Periodontitis
- Pre-Eclampsia
- Premature Birth

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