

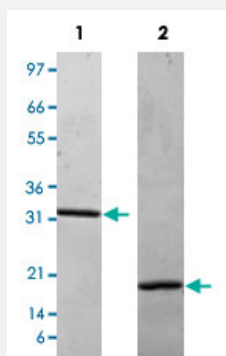
Bioactive

CSF1 (Human) Recombinant Protein

Catalog # P4421

Size 10 ug

Applications



Lane 1: non-reducing conditions

Lane 2: reducing conditions

Result of activity analysis

Result of activity analysis

Serial dilutions of human CSF1, starting at 50 ng/mL, were added to NSF-60 cells. Cell proliferation was measured after 44 hours and the linear portion of the curve was used to calculate the ED50.

Specification

Product Description	Human CSF1 (P09603) recombinant protein expressed in <i>Escherichia coli</i> .
Sequence	MEEVSEYCSHMIGSGHLQSLQRLIDSQMETSQCITFEFVDQEQLKDPVCYLKKAFLLVQDIMEDT MRFRDNTPNIAIAVLQELSLRLKSCFTKDYEEHDKACVRTFYETPLQLLEKVKNVFNETKNLLDK DWNIFSKNCNNSFAECSSQGHERQSEGS
Host	<i>Escherichia coli</i>
Theoretical MW (kDa)	36.8
Form	Lyophilized
Preparation Method	<i>Escherichia coli</i> expression system

Endotoxin Level	< 0.1 EU/ug
Activity	The activity is determined by the dose-dependent proliferation of mouse NFS-60 cells. The expected ED ₅₀ for this effect is 1.4-2.1 ng/mL.
Quality Control Testing	1 ug/lane in 4-20% Tris-Glycine gel Stained with Coomassie Blue Lane 1: non-reducing conditions Lane 2: reducing conditions
Storage Buffer	Lyophilized from 10 mM Na ₂ PO ₄ , 50 mM NaCl, pH 8.0
Storage Instruction	Store at -20°C on dry atmosphere. After reconstitution with sterilized water, store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Note	Result of activity analysis Result of activity analysis Serial dilutions of human CSF1, starting at 50 ng/mL, were added to NSF-60 cells. Cell proliferation was measured after 44 hours and the linear portion of the curve was used to calculate the ED50.

Applications

- Functional Study
- SDS-PAGE

Gene Info — CSF1

Entrez GeneID	1435
Protein Accession#	P09603
Gene Name	CSF1
Gene Alias	MCSF, MGC31930
Gene Description	colony stimulating factor 1 (macrophage)
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](#)
- [Ovarian Neoplasms](#)
- [Periodontitis](#)

- [Pre-Eclampsia](#)
- [Premature Birth](#)