Active Recombinant Mouse Csf1 (33-262aa), Met tagged

Cat. No. Csf1-041E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Csf1 (Lys33 Glu262, with an Nterminal Met) was expressed in E. coli and produced using nonanimal reagent in an animalfree laboratory.
Species	Mouse
Source	E.coli
Description	MCSF, also known as CSF1, is a fourμhelical bundle cytokine that is the primary regulator of macrophage survival, proliferation and differentiation. MCSF is also essential for the survival and proliferation of osteoclast progenitors. MCSF also primes and enhances macrophage killing of tumor cells and microorganisms, regulates the release of cytokines and other inflammatory modulators from macrophages, and stimulates pinocytosis . MCSF increases during pregnancy to support implantation and growth of the decidua and placenta. Sources of MCSF include fibroblasts, activated macrophages, endometrial secretory epithelium, bone marrow stromal cells and activated endothelial cells.
Nterminal Sequence Analysi	Met
Structure / Form	Disulfidelinked homodimer
Molecular Mass	26 kDa (monomer)
SDSPAGE	52 kDa, nonreducing conditions

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Activity	Measured in a cell proliferation assay using MNFS60 mouse myeloid cells. The ED50 for this effect is typically 0.5 3 ng/mL.
Endotoxin Leve	<1.0 EU per 1 μg of the protein by the LAL method.
Purity	>97%, by SDSPAGE under reducing conditions and visualized by silver stain.
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS. See Certificate of Analysis for details.
Reconstitution	Reconstitute at 200 μg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Storage	Use a manual defrost freezer and avoid repeated freezethaw cycles. 1. 12 months from date of receipt, 20 to 70 °C as supplied. 2. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 3. 3 months, 20 to 70 °C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	Csf1 colony stimulating factor 1 (macrophage) [Mus musculus]
Official Symbol	Csf1
Synonyms	Csf1; colony stimulating factor 1 (macrophage); op; Csfm; MCSF; C87615; macrophage colony-stimulating factor 1; osteopetrosis
Gene ID	12977

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mRNA Refseq	NM_001113530
Protein Refseq	NP_001107002
UniProt ID	P07141
Chromosome Location	3 F3; 3 51.0 cM
Pathway	Cytokine-cytokine receptor interaction; Hematopoietic cell lineage; Osteoclast differentiation; Rheumatoid arthritis; Signaling events mediated by PTP1B; Signaling events mediated by TCPTP
Function	cytokine activity; growth factor activity; macrophage colony-stimulating factor receptor binding; protein homodimerization activity
PDB rendering basedon 1hmc.	

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