Active Recombinant Rat Csf1 Protein (155 aa)

Cat. No. Csf1-333C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Macrophage Colony Stimulating Factor (M-CSF) produced in E. coli is a disulfide-linked homodimer containing two non-glycosylated polypeptide chains of 155 amino acids each. A fully biologically active molecule, rrM-CSF has a molecular mass of 28 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.
Species	Rat
Source	E.coli
ProteinLength	155
Description	Macrophage-Colony Stimulating Factor (M-CSF), also known as Colony Stimulating Factor-1 (CSF-1), can stimulate the survival, proliferation and differentiation of mononuclear phagocytes, in addition to the spreading and motility of macrophages. M-CSF is mainly produced by monocytes, macrophages, fibroblasts, and endothelial cells. Interaction of M-CSF with its receptor, c-fms, has been implicated in the growth, invasion, and metastasis of several types of cancer, including breast and endometrial cancer.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50 < 5 ng/mL, measured in a cell proliferation assay using Murine M-NFS-60 cells, corresponding to a specific activity of > 2 × 10^5 units/mg.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Molecular Mass	28 kDa, observed by reducing SDS-PAGE.
AA Sequence	MEVSEHCSHMIGNGHLQILQQLIDSQMETACLIEYKFVDQEQLDDPVCYLKKAFVLV QVIIEETMRFKDNTPNANATERLQELSMKLNSCFIKDYKEQNEACVQTYKESPLRLLE KIKNFFNETKNFLEKDWNIFSKNCNDSLAKCSSRDVVTKP
Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% as analyzed by SDS-PAGE.
Storage	Lyophilized recombinant Rat Macrophage Colony Stimulating Factor(M-CSF) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, Rat M-CSF should be stable up to 1 week at 4 centigrade or up to 3 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against 50mM Tris, 150mM NaCl, pH 8.0.
Reconstitution	Reconstituted in ddH2O at 100 μg/mL.

GENE INFORMATION

Gene Name	Csf1 colony stimulating factor 1 (macrophage) [Rattus norvegicus]
Official Symbol	Csf1
Synonyms	CSF1; colony stimulating factor 1 (macrophage); macrophage colony-stimulating factor 1; MCSF; CSF-1;
Gene ID	78965
mRNA Refseq	NM_023981

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Protein Refseq	NP_076471
UniProt ID	Q8JZQ0

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