Active Recombinant Rat Csf1

Cat. No. Csf1-14R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Csf1 was expressed in CHO.
Species	Rat
Source	CHO
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. M-CSF interaction with its receptor, c-fms, has been implicated in the growth, invasion, and metastasis of of several diseases, including breast and endometrial cancers.
Form	White Freeze-dried Powder. Lyophilized after extensive dialysis against PBS.
Bio-activity	ED50 < 2.5 ng/ml, measured in a cell proliferation assay using Murine M-NFS-60 cells, corresponding to a specific activity of > 4×10^5 units/mg.
Molecular Mass	32-40 kDa, observed by non-reducing SDS-PAGE.
AA Sequence	EVSEHCSHMI GNGHLQILQQ LIDSQMETAC LIEYKFVDQEQLDDPVCYLK KAFVLVQVII EETMRFKDNT PNANATERLQELSMKLNSCF IKDYKEQNEA CVQTYKESPL RLLEKIKNFFNETKNFLEKD WNIFSKNCND SLAKCSSRDV VTKP

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

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 ºC from date of receipt. Upon reconstitution, rrM-CSF should be stable up to 1 week at 4 °C or up to 2 months at -20 ºC.
Reconstitution	Reconstituted in ddH2O or PBS at 100 μg/ml.

GENE INFORMATION

Gene Name	Csf1 colony stimulating factor 1 (macrophage) [Rattus norvegicus (Norway rat)]
Official Symbol	Csf1
Synonyms	Csf1; colony stimulating factor 1 (macrophage); macrophage colony-stimulating factor 1; CSF-1; MCSF; NP_076471.3; EC 2.7.10.1
Gene ID	78965
mRNA Refseq	NM_023981
Protein Refseq	NP_076471
UniProt ID	Q8JZQ0
Chromosome Location	2q34
Pathway	Cytokine-cytokine receptor interaction; Cytokines and Inflammatory Response

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	(BioCarta); Hematopoietic cell lineage
Function	cytokine activity; growth factor activity; macrophage colony-stimulating factor receptor binding

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