

Active Recombinant Human CSF1

Cat. No. CSF1-418H Lot. No. (See product label)

SPECIFICATION

Product Overview Macrophage Colony Stimulating Factor Human Recombinant produced in E.coli is a disulfide linked homodimer, glycosylated, polypeptide chain containing 2 x 149 amino acids and having a total molecular mass of 42 kDa. MCSF is purified by proprietary chromatographic techniques.

Species Human

Source Silkworm

Description 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. Alternate splicing results in multiple transcript variants.

Form Sterile Filtered White lyophilized (freeze-dried) powder. The lyophilized protein (1mg/ml) was lyophilized with 20mM phosphate buffer, 1% HSA and 3% manntiol.

Bio-activity The ED50, calculated by the dose-dependant stimulation of the proliferation of murine M-NFS-60 indicator cells was found < 3ng/ml, corresponding to a specific activity of less than 333,333.33units/mg.

Molecular Mass 42 kDa

 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

AA Sequence	EEVSEYCSHM IGSGHLQSLQ RLIDSQMETS CQITFEFVDQ EQLKDPVCYL KKAFLLVQDI MEDTMRFRDN TPNAIAIVQL QELSLRLKSC FTKDYEEHDK ACVRTFYETP LQLEKVKNV FNETKNLLDK DWNIFSKNCN NSFAECSSQ.
Purity	Greater than 95.0% as determined by RP-HPLC and SDS-PAGE.
Storage	Lyophilized Macrophage Colony Stimulating Factor although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution MCSF should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.
Reconstitution	It is recommended to reconstitute the lyophilized M-CSF in sterile 18MΩ-cm H ₂ O not less than 100g/ml, which can then be further diluted to other aqueous solutions.

GENE INFORMATION

Gene Name	CSF1 colony stimulating factor 1 (macrophage) [Homo sapiens (human)]
Official Symbol	CSF1
Synonyms	CSF1; MCSF; CSF-1; colony stimulating factor 1 (macrophage); macrophage colony-stimulating factor 1; lanimostim; NP_000748.3; EC 2.7.10.1; NP_757349.1; NP_757350.1; NP_757351.1
Gene ID	1435
mRNA Refseq	NM_000757
Protein Refseq	NP_000748
MIM	120420

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UniProt ID	P09603
Chromosome Location	1q21-p13
Pathway	Cytokine-cytokine receptor interaction; Rheumatoid arthritis; Signaling events mediated by TCPTP
Function	cytokine activity; growth factor activity; macrophage colony-stimulating factor receptor binding

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