

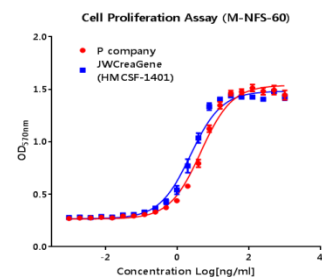
DATA SHEET

Product Information

Product Name	: Recombinant Human Macrophage-Colony Stimulating Factor (rhM-CSF)
Synonyms	: Macrophage-colony-stimulating factor 1, MCSF, CSF1
Description	: Recombinant human M-CSF produced in <i>E. coli</i> is a non-glycosylated 37kDa homodimeric protein containing 159 amino acids polypeptide subunit. M-CSF, also known as CSF-1, is the primary regulator of the survival, proliferation, differentiation and function of mononuclear phagocytes. M-CSF plays important roles in innate immunity, cancer and inflammatory diseases, including systemic lupus erythematosus, arthritis, atherosclerosis and obesity. M-CSF binds to the tyrosine kinase receptor CSF-1 receptor on myeloid progenitor cells, which results in their differentiation into several cell types belonging to the mononuclear phagocyte lineage.
NCBI Accession No.	: NM_172211.3
Amino acid sequence	: MEEVSEYCSHMIGSGHLQSLQRLIDSQMETSCQITFEFVDQEQLKDPVCYLK KAFLLVQDIMEDTMRFRDNTPNIAIAIVQLQELSLRLKSCFTKDYEEHDKACV RTFYETPLQLLEKVKNVFNETKNLLDKDWNIFSKNCNNSFAECSSQGHERQS EGS
Molecular Mass	: 18.5 kDa (159 aa)
Protein Tags	: No tagging
Source	: <i>E. coli</i> .
Cat. No.	: HMCS-10, HMCS-25, HMCS-50, HMCS-100, HMCS-250, HMCS-500
Storage	: Should be at ≤ -70 °C as undiluted aliquots of handy size. Avoid repeated freezing and thawing.
Cross Reactivity	: Monkey, Mouse, Rat

Quality Control

Test items	Specifications
Appearance	: Clear, colorless liquid
Purity	: Greater than 98 % by RP-HPLC and SDS-PAGE
Specificity	: Using Western blot, detection
Concentration	: 0.1 mg/ml, Bradford method
Biological Activity	: Determined by proliferation of M-NFS-60 indicator cells The ED50 is <1.0 ng/ml, corresponding to a specific activity of $> 1.0 \times 10^6$ EU/mg
Endotoxin	: Less than 1.0 EU/ μ g as determined by the LAL method
Formulation	: PBS (pH 7.0~8.0) without preservative or carrier proteins
Stability	: Stable for up to 12 months at -70 °C. Stable for a month at 4 °C.
Sterility	: Sterilized through a 0.2 μ m membrane filter and packaged aseptically. Culture for 2 weeks, no growth



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