

Datasheet for ABIN6699710

M-CSF/CSF1 Protein**2** Images[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	M-CSF/CSF1 (CSF1)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	SDS-PAGE (SDS)

Product Details

Purpose:	Human Macrophage Colony Stimulating Factor Recombinant Protein
Purification:	Macrophage Colony Stimulating Factor purity was determined to be greater than 97% as determined by HpLC, analysis by UV-Spectroscopy at 280nm, and by reducing and non-reducing SDS-pAGE.
Purity:	97,00%
Endotoxin Level:	Measured by LAL is typically ≤ 1 EU/µg protein.
Biological Activity Comment:	The activity is determined by the dose-dependent proliferation of mouse NFS-60 cells and is typically 10.0 ng/mL.

Target Details

Target:	M-CSF/CSF1 (CSF1)
Alternative Name:	CSF1 (CSF1 Products)
Background:	Synonyms: MGI-IM, Lanimostim

Target Details

Background: Macrophage Colony Stimulating Factor (M-CSF) is a hematopoietic growth factor produced by a wide variety of cells. M-CSF is known to stimulate differentiation of hematopoietic stem cells to monocyte-macrophage cell populations in culture. M-CSF acts through the CSF receptor 1. Although human M-CSF shows activity on mouse cells, mouse CSF shows no activity on human cells. Recombinant human M-CSF is a disulfide linked homodimer, containing two 159 amino acid chains, with a total molecular weight of 36.8 kDa.

UniProt: [P09603](#)

Pathways: [RTK Signaling](#)

Application Details

Application Notes: Other: User Optimized
Application_Note: Macrophage Colony Stimulating Factor Recombinant Protein has been tested by SDS-PAGE and biological activity and is suitable as a control for polyclonal or monoclonal anti-Macrophage Colony Stimulating Factor in immunological assays.

Comment: Suggested_Applications: Cellular Assay
Other_Performance_Data:

Restrictions: For Research Use only

Handling

Format: Lyophilized

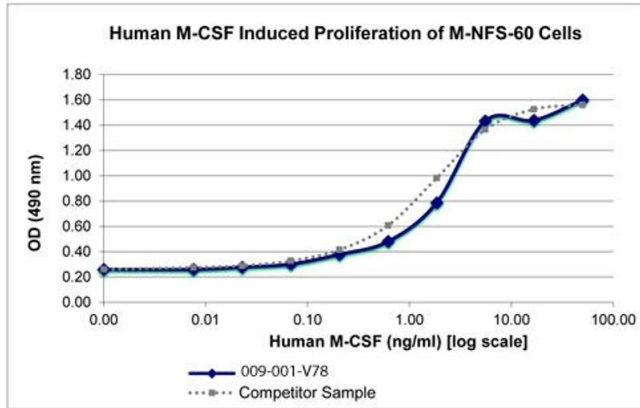
Reconstitution: Reconstitution_Buffer: Restore with deionized water (or equivalent)
Reconstitution_Volume: 100 µL

Buffer: Lyophilized in 10 mM sodium phosphate, 100 mM sodium chloride, pH 8.0.

Preservative: Without preservative

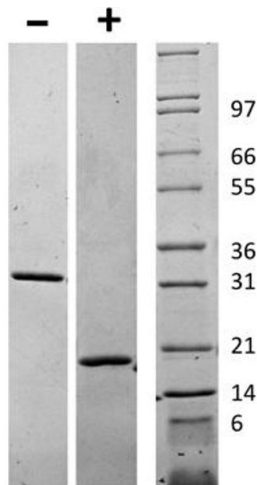
Storage: 4 °C, -20 °C

Storage Comment: Store vial at 4° C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL). For best results aliquot contents and freeze at -20° C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each opening to dislodge contents from the cap and to clarify if contents are not clear after standing at room temperature.



SDS-PAGE

Image 1. SDS-PAGE of Human Macrophage Colony Stimulating Factor Recombinant Protein Bioactivity of Human Macrophage Colony Stimulating Factor Recombinant Protein. Serial dilutions of Human M-CSF, starting at 50 ng/mL, were added to NSF-60 cells. Cell proliferation was measured after 68 hours and the linear portion of the curve was used to calculate the ED50. The ED50 of Human M-CSF is 1.4-2.1 ng/mL. This value is comparable with the typical expected range of less than 2 ng/mL.



SDS-PAGE

Image 2. SDS-PAGE of Human Macrophage Colony Stimulating Factor Recombinant Protein SDS-PAGE of Human Macrophage Colony Stimulating Factor Recombinant Protein. Lane 1: 1 µg Human M-CSF in non-reducing conditions. Lane 2: 1 µg Human M-CSF in reducing conditions (+). Lane 3: Molecular weight marker. Human M-CSF is a homodimer with a total predicted MW of 36.8 kDa.