

Datasheet for ABIN6699713

M-CSF/CSF1 Protein[Go to Product page](#)**1** Image

Overview

Quantity:	10 µg
Target:	M-CSF/CSF1 (CSF1)
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

Product Details

Purpose:	Mouse Macrophage Colony Stimulating Factor Recombinant Protein
Purification:	Macrophage Colony Stimulating Factor purity was determined to be greater than 98% as determined by analysis by UV-Spectroscopy at 280nm and by reducing and non-reducing SDS-pAGE.
Purity:	98,00%
Endotoxin Level:	Measured by LAL is typically ≤ 1 EU/µg protein.
Biological Activity Comment:	The activity is determined by dose-dependent induction of M-NFS-60 cell proliferation and is typically less than 2 ng/mL.

Target Details

Target:	M-CSF/CSF1 (CSF1)
Alternative Name:	Csf1 (CSF1 Products)
Background:	Synonyms: MGI-IM Background: Macrophage Colony Stimulating Factor (M-CSF) is hematopoietic growth factor

Target Details

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 mouse M-CSF is a disulfide-linked homodimer, containing two 156 amino acid chains, with a total molecular weight of 36.8 kDa.

UniProt: [P07141](#)

Pathways: [RTK Signaling](#)

Application Details

Application Notes: Other: User Optimized
Application_Note: Macrophage Colony Stimulating Factor Recombinant Protein has been tested by 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: 10 µL (10-100 µL)

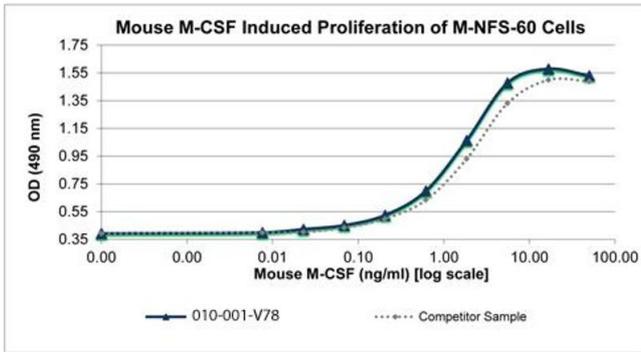
Concentration: 0.1 mg/mL

Buffer: Lyophilized in 10 mM sodium phosphate, 50 mM sodium chloride, pH 7.5.

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 Mouse Macrophage Colony Stimulating Factor Recombinant Protein Bioactivity of Mouse Macrophage Colony Stimulating Factor Recombinant Protein. Serial dilutions of Mouse M-CSF, starting at 50 ng/mL, were added to NSF-60 cells. Cell proliferation was measured after 44 hours and the linear portion of the curve was used to calculate the ED50. The ED50 of Mouse M-CSF is 1.1-1.6 ng/mL. This value is comparable with the typical expected range of < 2 ng/mL.