

## Overview

<b>Synonyms</b>	Macrophage Colony Stimulating Factor, MGI-IM, CSF1, CSF-1, MCSF
<b>Description</b>	<b>Macrophage-Colony Stimulating Factor (M-CSF)</b> , 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 <sup>[1]</sup> . M-CSF is mainly produced by monocytes, macrophages, fibroblasts, and endothelial cells <sup>[2]</sup> . M-CSF interaction with its receptor, c-fms, has been implicated in the growth, invasion, and metastasis of several diseases, including breast and endometrial cancers <sup>[1][3][4]</sup> .
<b>Accession No</b>	NP_076471.3
<b>Species</b>	Rat
<b>Source</b>	CHO
<b>Biological Activity</b>	ED <sub>50</sub> < 2.5 ng/ml, measured in a cell proliferation assay using Murine M-NFS-60 cells, corresponding to a specific activity of > 4×10 <sup>5</sup> units/mg.
<b>Sequence</b>	EVSEHC SHMI GNGHLQILQQ LIDSQMETAC LIEYKFVDQE QLDDPVCYLK KAFVLVQVII EETMRFKDNT PNANATERLQ ELSMKLNSCF IKDYKEQNEA CVQTYKESPL RLLEKIKNFF NETKNFLEKD WNIFSKNCND SLAKCSSRDV VTKP

## Properties

<b>Measured Molecular Weight</b>	32-40 kDa, observed by non-reducing SDS-PAGE.
<b>Purity</b>	> 95% as analyzed by SDS-PAGE.
<b>Formulation</b>	Lyophilized after extensive dialysis against PBS.
<b>Reconstitution</b>	Reconstituted in ddH <sub>2</sub> O or PBS at 100 µg/ml.
<b>Endotoxin Level</b>	< 0.2 EU/µg, determined by LAL method.
<b>Storage</b>	Lyophilized recombinant <b>Rat Macrophage-Colony Stimulating Factor (M-CSF)</b> remains stable up to 6 months at lower than -70°C 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°C.
<b>Note</b>	For research use only

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