



Overview

Synonyms	Macrophage Colony Stimulating Factor, CSF-1, M-CSF
Description	Macrophage-Colony Stimulating Factor (M-CSF), 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. M-
	CSF is mainly produced by monocytes, macrophages, fibroblasts, and endothelial cells.
	Interaction of M-CSF with its receptor, c-fms, has been implicated in the growth, invasion,
	and metastasis of several types of cancer, including breast and endometrial cancer.
	Recombinant Rat Macrophage Colony Stimulating Factor (M-CSF) produced
	in E.coli is a disulfide-linked homodimer containing two non-glycosylated polypeptide
	chains of 155 amino acids each. A fully biologically active molecule, rrM-CSF has a
	molecular mass of 28 kDa analyzed by reducing SDS-PAGE and is obtained by
	chromatographic techniques.
Source	E. coli
Biological Activity	ED ₅₀ < 5 ng/ml, measured in a cell proliferation assay using Murine M-NFS-60 cells,
	corresponding to a specific activity of > 2×10⁵ units/mg.
Sequence	Glu ³³ -Pro ¹⁸⁶ (Accession #: NP_076471.3), with an N-terminal Met

Properties

Measured Molecular Weight	r 28 kDa, observed by reducing SDS-PAGE.
Purity	> 95% as analyzed by SDS-PAGE.
Formulation	Lyophilized after extensive dialysis against 50mM Tris, 150mM NaCl, pH 8.0.
Reconstitution	Reconstituted in ddH₂O at 100 μg/ml.
Endotoxin Level	< 0.2 EU/µg, determined by LAL method.
	Lyophilized recombinant Rat Macrophage Colony Stimulating Factor(M-CSF) remains
Storage	stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Rat
	M-CSF should be stable up to 1 week at 4°C or up to 3 months at -20°C.
Note	For research use only

Glu³³-Pro¹⁸⁶ (Accession #: NP_076471.3), with an N-terminal Met

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