

CELLKINES

Macrophage-Colony Stimulating Factor (rhM-CSF)

ZMC Catalog#	Unit Size	Fill Volume:	Lot Number: 300986	
0801030	10,000 units	0.1 ml	Specific Activity: 6.0 x 10 ⁷ U/mg	Potency: 1.0 x 10 ⁶ U/ml
0801027	100,000 units	0.1 ml	Protein Concentration: 17 µg/ml	Endotoxin: 0.1 ng/ml

PRODUCT CHARACTERISTICS

Recombinant Human Macrophage-Colony Stimulating Factor (rhM-CSF), previously referred to as CSF1, is an important biological protein that mediates the process of clonal growth and maintenance of monocytes and macrophages. CELLKINES rhM-CSF is a recombinant protein of high specific activity and purity. The rhM-CSF is a homodimer protein produced from the long cDNA clone of Ladner, et al. The transmembrane region of the gene has been deleted by C terminal truncation. CELLKINES rhM-CSF is diluted in 0.25% human serum albumin (heat inactivated) and sterile filtered

RECOMMENDED USAGE

CELLKINES rhM-CSF is valuable in a variety of studies aimed at the mechanism of M-CSF/receptor interaction, regulation of growth cycle progression and stimulation of monocytes and macrophages. It can be used for *in vitro* laboratory study of myeloid leukemias, trophoblast cells and choriocarcinomas, all of which express receptors for rhM-CSF. This human protein is fully active on murine cells. When used for tissue culture work, it is recommended that this product be further diluted in tissue culture media (containing either fetal calf serum or human serum) compatible with the experimental system.

STORAGE AND STABILITY

Product is stable for one year when stored at -20°C.
Store in working aliquots to avoid multiple freeze-thaw cycles.

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All products are for Research Use Only and not for *in vitro* Diagnostic Use

This Package Insert is provided for product evaluation purposes only and is not intended to be used in place of the Package Insert shipped with the product.