

## PRODUCT INFORMATION SUMMARY

### Human M-CSF

Purified Factor	Product Number	HC88820B	10 ug
Purified Factor	Product Number	HC88820A	2.0 ug

#### DESCRIPTION:

Human Macrophage-Colony Stimulating Factor (M-CSF) is a growth factor for monocytes and macrophages. Human M-CSF is produced by several cell types including endothelial cells, fibroblasts, and macrophages. A homodimeric protein, human M-CSF has molecular weight of 36.8 kDa, and two 159 aa. residue subunits.

**SOURCE:** E. Coli, sterile-filtered, lyophilized from Tris, pH 8.0  
Purity > 98% by HPLC analysis  
Endotoxin < 0.1 ng per ug Human M-CSF

#### BIOLOGICAL ACTIVITY:

**Fully biologically active when compared to standards.**

Specific activity of 5.0 ng/mL, as determined by dose dependent stimulation of murine M-NFS-60 cells corresponding to specific activity of  $2 \times 10^5$  units/mg.

#### HANDLING AND STORAGE:

Purified Human M-CSF factor is provided lyophilized from Tris/Saline, pH 8.0., and free of additives. Store lyophilized, at -20° C. **Spin-down** vial and reconstitute with **sterile or distilled water** to a concentration of 100 ug/mL, then further dilute in other buffered solutions. Store small aliquots, with **addition of 0.1% BSA**, at -20° C for long-term storage - up to 3 months, at high concentration.

**Microcentrifuge before reconstitution.** Because ANTIGENIX factors are provided without carrier proteins like sucrose or BSA, the small quantities of lyophilized protein can adhere to the sides and cap of the vial during manufacture. **Before opening the vial**, we recommend microcentrifuging for 30 seconds to spin-down all material.

#### WARRANTY:

Products sold hereunder are warranted only to conform to the quantity and contents stated on the label at the time of delivery to the customer. There are no warranties, expressed or implied, which extend beyond the description on the label of the product.

**RESEARCH USE ONLY -NOT for DRUG USE**