


CA1075	HumanKine™ M-CSF			
	Prod. No. S2333-10UG <i>For Research Use Only</i> <i>Not intended for use in humans or animals</i>	lot #: PRXXXXXX XXXX	Orders & Support Web	866 372-7442 support@primorigen.com www.primorigen.com

Pack Size	10 µg
Species	Human
Expression System	HEK 293*
	Animal-derived product free
Molecular Mass	35 -40 kDa homodimer, glycosylated
Activity	Typically 0.5 to 4 ng/mL ED50
Purity	≥ 95%
Endotoxin	≤ 1 EU/µg

Background:

Recombinant human M-CSF expressed in engineered human cells. M-CSF is a 35-40 kDa glycosylated disulfide linked homodimer and belongs to the Colony Stimulating Factor protein family. Various cell types such as fibroblasts produce M-CSF. After cell activation, B. T. and tumor cell lines produce M-CSF, M-CSF induces the synthesis of G-CSF, IFN, TNF, and prostaglandins and is a hematopoietic growth factor responsible for the survival and proliferation of monocytes and macrophages.

Note: Representative data are shown below (not Lot-specific).

Formulation:

Lyophilized in PBS.

Reconstitution:

Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile PBS containing 0.1% endotoxin-free recombinant human serum albumin.

Storage and Stability:

Lyophilized products are stable for one year at -20°C to -80°C from date of receipt. Store only at -20°C to -80°C in working aliquots. Avoid repeated freeze-thaw cycles.

Quality Control Testing

Assay:

The specific activity was determined by dose-dependent stimulation of the proliferation of murine M-NFS-60 cells (Mouse Myeloid Leukemia indicator cell line).

Purity Confirmation:

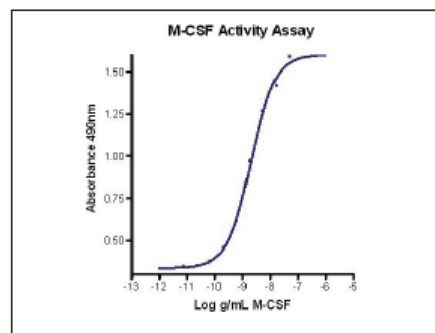
The protein was resolved by SDS-polyacrylamide gel electrophoresis and the gel was stained with Coomassie blue.

References:

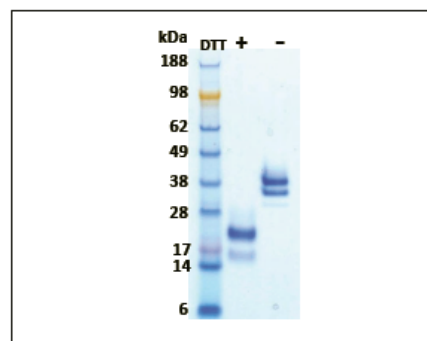
Halenbeck, R., *et al* (1989) *Biotechnology* 7, 710-715
Metcalf D., (2008) *Blood* 111, 485-491

**All HumanKine™ cytokines are expressed in HEK 293 cells.
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A. Activity Assay



B. SDS-PAGE



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