



PACIFIC COAST
BIOLOGICS

Certificate of Analysis

Animal Free Recombinant Human M-CSF

Catalog #: HMCSF
Lot #: 240712
Expiration: July 2029

Amino Acid Sequence

MEEVSEYCSH MIGSGHLQSL QRLIDSQMET SCQITFEFVD QEQLKDPVCY LKKAFLLVQD IMEDTMRFRD NTPNAIAIVQ LQELSLRLKS CFTKDYEEHD
KACVRTFYET PLQLLEKVKV VFNETKNLLD KDWNIFSKNC NNSFAECSSQ GHERQSEGS

Product Specifications

- Purity >98% by SDS-PAGE gel and HPLC
- Endotoxin <0.1 EU/μg by the LAL method.
- Molecular Weight 36.8 kDa, as determined by MALDI-TOF mass spectrometry.
- Source: E.coli

Manufacturing

Produced using non animal derived components in a dedicated animal-free facility.

Formulation

- Sterile-filtered and lyophilized from a sodium phosphate solution.

Biological Activity

The ED50 was determined by the dose-dependent stimulation of the proliferation of murine M-NFS-60 cells is ≤ 0.8 ng/ml, corresponding to a specific activity of $\geq 1.25 \times 10^6$ units/mg.

Storage and Handling

Reconstitution

Centrifuge the vial briefly before opening. Reconstitute with RO/DI water to a final concentration of 0.1–1 mg/mL (0.1–1 μg/μL). Do not vortex after reconstitution. Avoid repeated freeze–thaw cycles. The lyophilized powder is stable at room temperature, but it is best stored below 0°C. Reconstituted human M-CSF should be stored at –20°C.

Storage (Lyophilized Powder)

- 4°C: Stable for up to 12 months
- –20°C to –80°C: Recommended for long-term storage

Usage: For Research Use Only. Not for human use.

Country of Origin, USA

Director of QA/QC

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