

Recombinant Human M-CSF (Macrophage Colony-Stimulating Factor)

Catalog # (Size): HZ-1192 (10µg) HZ-1193 (100µg) HZ-1039 (1000µg)

Product Description

- Endotoxin-free
- Animal-derived product free
- Available in Bulk
- Lyophilized and Carrier Free (CF)
- Authentic Glycosylated Homodimer

Xeno-free M-CSF^{HuXp} is expressed in human 293 cells and has an apparent molecular mass of 35 and 40 kDa due to glycosylation. M-CSF is a potent hematopoietic factor produced by a variety of cells including lymphocytes, monocytes, fibroblasts, endothelial cells, myoblasts, and osteoblasts. It is a key regulator of cellular proliferation, differentiation, and survival of blood monocytes, tissue macrophages, and their progenitor cells. This cytokine is produced in a human cell expression system with serum-free, chemically defined media.

Typical Specifications

Species	Human
Expression	HEK293 Cell Expressed
Activity	Typically ≤ 4 ng/mL EC ₅₀
Purity	>95%
Endotoxin	<1 EU/µg
Molecular Mass	35 and 40 kDa, homodimer, glycosylated
Formulation	1x PBS

Purity Confirmation

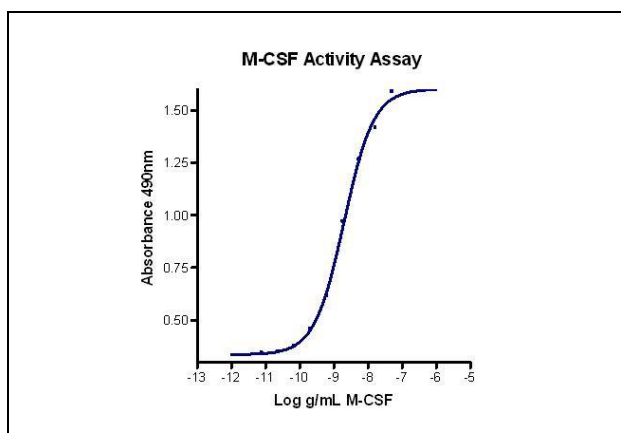
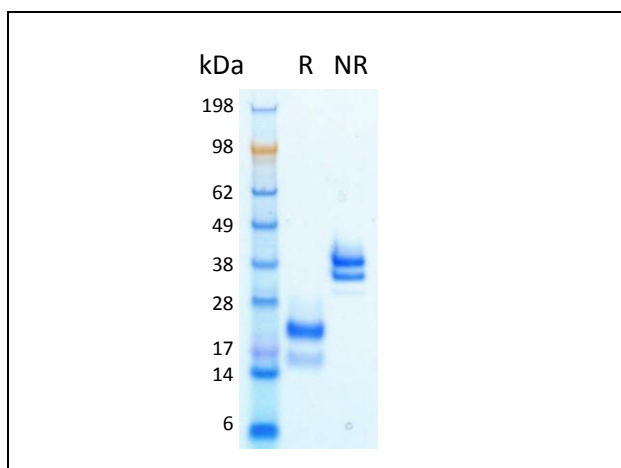
The protein was resolved by SDS-polyacrylamide gel electrophoresis and the gel was stained with Coomassie blue.

Activity Assay

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



All HumaXpress[®] HumanKine[™] are animal-component-free and Xeno-free[™]



Reconstitution Buffer

Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile 1x PBS containing 0.1% endotoxin-free recombinant human serum albumin (HSA).

Limited Use and Restrictions Unless otherwise stated in our catalog or other company documentation accompanying the products sold by HumanZyme Inc. are intended for research use only and are not to be used for any other purpose, which includes but is not limited to, unauthorized commercial uses, including resale or use in manufacture, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses or any type of consumption or application to humans or animals.