

## Recombinant Human M-CSF (C-6His)

Catalog No : PMK2125

Known As: Macrophage Colony-Stimulating Factor 1; CSF-1; M-CSF; MCSF; Lanimostim; CSF1

### PROPERTIES

Description	Recombinant Human Macrophage Colony-Stimulating Factor is produced by our Mammalian expression system and the target gene encoding Glu33-Arg255 is expressed with a 6His tag at the C-terminus.
Accession	P09603
Formulation	Lyophilized from a 0.2 $\mu$ m filtered solution of 20mM PB, 150mM NaCl, pH 7.2.
Size	10 $\mu$ g/50 $\mu$ g/500 $\mu$ g/1mg
Purity	> 95%
Endotoxin	< 0.01 EU/ $\mu$ g as determined by LAL test.
Predicted Mol Mass	26.17 KDa
Apparent Mol Mass	41 KDa, reducing conditions
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
Storage	Lyophilized protein should be stored at $\leq -20^{\circ}\text{C}$ , stable for one year after receipt. Reconstituted protein solution can be stored at 2-8 $^{\circ}\text{C}$ for 2-7 days. Aliquots of reconstituted samples are stable at $\leq -20^{\circ}\text{C}$ for 3 months.
Background	Macrophage Colony-Stimulating Factors (m-csf) are cytokines that act in hematopoiesis by controlling the production, differentiation, and function of 2 related white cell populations of the blood, the granulocytes and the monocytes/macrophages. CSF-1 promotes the release of proinflammatory chemokines, and thereby plays an important role in innate immunity and in inflammatory processes. It also plays an important role in the regulation of osteoclast proliferation and differentiation, the regulation of bone resorption, and is required for normal bone development. CSF-1 is required for normal male and female fertility and promotes reorganization of the actin cytoskeleton, regulates formation of membrane ruffles, cell adhesion and cell migration. It also plays a role in lipoprotein clearance.

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