

## Recombinant Human M-CSF/CSF1 Protein (His Tag)

Catalog Number: PKSH032741

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

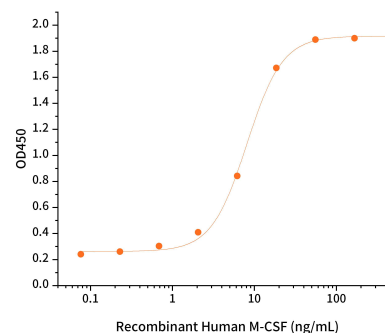
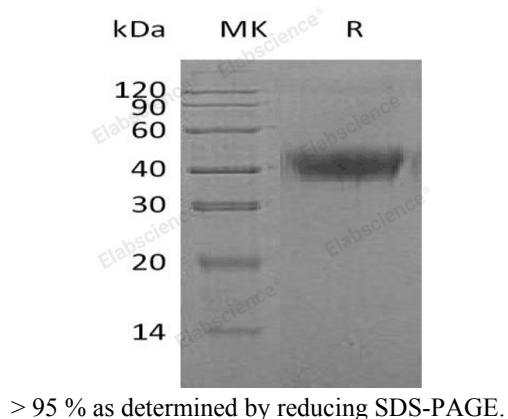
### Description

Species	Human
Source	HEK293 Cells-derived Human M-CSF;CSF1 protein Glu33-Arg255, with an C-terminal His
Calculated MW	26.2 kDa
Observed MW	41 kDa
Accession	P09603
Bio-activity	Measured in a cell proliferation assay using M-NFS-60 mouse lymphoblast cells. The ED <sub>50</sub> for this effect is 2-10 ng/mL.

### Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 0.01 EU per µg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 °C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.2. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Reconstitution	Please refer to the specific buffer information in the printed manual.

### Data



Measured in a cell proliferation assay using M-NFS-60 mouse lymphoblast cells. The ED<sub>50</sub> for this effect is 2-10 ng/mL.

### 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.