Elabscience®

Recombinant Mouse M-CSF protein(His Tag)

Catalog Number: PKSM041498

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

Description	
Species	Mouse
Source	E.coli-derived Mouse M-CSF protein Lys32-Pro187, with an C-terminal His
Calculated MW	19.0 kDa
Observed MW	17-25 kDa
Accession	P07141
Bio-activity	Measure by its ability to induce proliferation in NFS-60 cells. The ED ₅₀ for this effect is <2 ng/mL. The specific activity of recombinant mouse M-CSF is approximately >5 x
	10 ⁵ IU/mg.
Properties	
Purity	> 98 % as determined by reducing SDS-PAGE.
Endotoxin	< 0.1 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 $< -20^{\circ}$ C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS,pH 8.0.
	Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants
	before lyophilization.
	Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.
Data	

kDa 75-63-48-35-25-17-

> 98 % as determined by reducing SDS-PAGE.

Background

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Macrophage colony-stimulating factor 1 (M-csf) is a single-pass type I membrane protein. It is a hematopoietic growth factor that is involved in the proliferation, differentiation, and survival of monocytes, macrophages, and bone marrow progenitor cells. M-CSF affects macrophages and monocytes in several ways, including stimulating increased phagocytic and chemotactic activity, and increased tumour cell cytotoxicity. The role of M-CSF is not only restricted to the monocyte/macrophage cell lineage. By interacting with its membrane receptor, M-CSF also modulates the proliferation of earlier hematopoietic progenitors and influence numerous physiological processes involved in immunology, metabolism, fertility and pregnancy.