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Human M-CSF protein

Cat #: PRP100268 Size: 20μg/ 100μg /1mg

Product Information

	Product Name: Human M-CSF protein		
REF	**Catalog Number:** PRP100268	LOT	**Lot Number:** Refer to product label
	Purity: > 85 % as determined by SDS-PAGE.		
	**Storage:** Store at -20℃		**Preparation method:** Human Cells
	Shipping: The product is shipped at ambient temperature.		

Background: Macrophage colony-stimulating factor 1, also known as CSF-1, M-CSF, Lanimostim and CSF1, is a single-pass membrane protein which is disulfide-linked as a homodimer or heterodimer. Granulocyte / macrophage colony-stimulating factors 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. M-CSF/CSF-1 is known to facilitate monocyte survival, monocyte-to-macrophage conversion, and macrophage proliferation. M-CSF/CSF-1 is a secreted cytokine which influences hemopoietic stem cells to differentiate into macrophages or other related cell types. It binds to the Colony stimulating factor 1 receptor. M-CSF/CSF-1 may also be involved in development of the placenta. The active form of M-CSF/CSF-1 is found extracellularly as a disulfide-linked homodimer, and is thought to be produced by proteolytic cleavage of membrane-bound precursors. M-CSF/CSF-1 induces cells of the monocyte/macrophage lineage. It also plays a role in immunological defenses, bone metabolism, lipoproteins clearance, fertility and pregnancy. Upregulation of M-CSF/CSF-1 in the infarcted myocardium may have an active role in healing not only through its effects on cells of monocyte/macrophage lineage, but also by regulating endothelial cell chemokine expression.

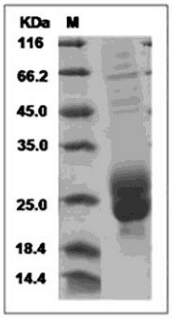
Sequence: Amino acid sequence derived from human CSF1 (NP_757349.1) (Met1-Asn190) was expressed with an initial Met.

Protein length: The recombinant human CSF1 consists 158 amino acids and predicts a molecular mass of 18.4 kDa.

Formulation: Lyophilized from sterile PBS, pH 7.4.

Storage Instructions: Lyophilized Human M-CSF protein product should be stored desiccated below -18℃. Upon reconstitution, the protein should be stored at 4℃ between 2 -7 days and for future use below -18℃. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Usage notes: Always centrifuge tubes before opening. It is recommended to reconstitute the lyophilized Human M-CSF protein in sterile ddH_2O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.

	Fig. SDS-PAGE analysis of Human M-CSF protein.

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