

Recombinant Mouse M-CSF

Catalog No : PMK2105

Known As: Interleukin-10; IL-10; Cytokine synthesis inhibitory factor; CSIF; IL10; RP11-262N9.1; IL10A; MGC126450; MGC126451; TGIF

PROPERTIES

Description	Interleukin-10; IL-10; Cytokine synthesis inhibitory factor; CSIF; IL10; RP11-262N9.1; IL10A; MGC126450; MGC126451; TGIF
Accession	P22301
Formulation	Lyophilized from a 0.2 μ m filtered solution of PBS, pH 7.4.
Size	10 μ g/50 μ g/500 μ g/1mg
Purity	> 95%
Endotoxin	< 0.01 EU/ μ g as determined by LAL test.
Predicted Mol Mass	18.6 KDa
Apparent Mol Mass	16 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 μ 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	Interleukin 10(IL10), also known as cytokine synthesis inhibitory factor (CSIF), is a secreted protein and belongs to the IL-10 family. IL-10 is secreted by many activated hematopoietic cell types as well as hepatic stellate cells, keratinocytes, and placental cytotrophoblasts. IL-10 is an anti-inflammatory TH2 cytokine that has a critical role in limiting the immune response to pathogens to prevent host damage. As IL-10 is produced in several T helper populations, it is proposed that it provides a feedback loop to limit the effector functions of macrophages and DCs on T cells. Once expressed, IL-10 signals through the IL-10 receptor (IL-10R) to activate STAT3. As IL-10 is a strong inhibitor of inflammation, it has become a viable biomarker for various diseases and conditions as well as a therapeutic molecule for certain conditions. In addition to elevated levels in parasitic infection, high expression levels of IL-10 are also found in retroviral infections inducing immunodeficiency. The immunosuppressive properties of IL-10 suggest a possible clinical use of IL-10 in suppressing rejections of grafts after organ transplantations

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