

Recombinant Murine Granulocyte Macrophage Colony Stimulating Factor (rm GM-CSF)

GM-CSF is a hematopoietic growth factor that stimulates the development of neutrophils and macrophages and promotes the proliferation and development of early erythroid megakaryocytic and eosinophilic progenitor cells. It is produced in by endothelial cells, monocytes, fibroblasts and T-lymphocytes. GM-CSF has been localized to a cluster of related genes at chromosome region 5q31 which is known to be associated with interstitial deletions in the 5q- syndrome and acute myelogenous leukemia. Other genes in the cluster include those encoding Interleukins 4, 5 and 13. GM-CSF inhibits neutrophil migration and enhances the functional activity of the mature end-cells. The human and murine molecules are species-specific and exhibit no cross-species reactivity.

Recombinant murine GM-CSF produced in *E. Coli* is a single, non-glycosylated, polypeptide chain containing 125 amino acids and having a molecular mass of 14.28 kDa.

Synonyms : CSF-2, MGI-1GM, pluripoietin-alpha

Source: *Escherichia coli*

AA Sequence: MAPTRSPITV TRPWKHVEAI KEALNLLDDM PVTLNEEVEV VSNEFSFKKL
TCVQTRLKIF EQGLRGNFTK LKGALNMTAS YYQTYCPPTP ETD CETQVTT
YADFIDSLKT FLTDIPFECK KPVQK

Formulation: Lyophilisate from a 0.22 µm filtered carrier free solution in PBS.

Reconstitution: Reconstitute in sterile endotoxin free water not less than 100 µg/ml

Stability: The lyophilized protein is stable for at least 2 years at -20°C. Reconstituted rm GM-CSF is stable for at least 3 months when stored in concentrated working aliquots (100 ng/µl or higher) at -20°C. Avoid repeated freeze/thaw cycles.

Biological Activity: Determined by the dose-dependant stimulation of the proliferation of murine FDCP-1 cell line the ED50 is < 0.2 ng/ml.

Purity: 95% (verified by SDS-PAGE / silver stain)

Endotoxicity: The endotoxin level is less than 0.1 ng per µg (1EU/µg) determined by LAL method

Order N°: rm GM-CSF+Size
available sizes: 2 µg, 10 µg, 50 µg

This material is offered **for laboratory research and in vitro use only**, not for drug, diagnostic or other use. EuroBioSciences will not be held responsible for patent infringement or other violations that may occur with the use of our products.