

## Granulocyte Macrophage-Colony Stimulating Factor Human Recombi-

<b>Item Number</b>	rAP-2149
<b>Synonyms</b>	CSF-2, MGI-1GM, GMCSF, Pluripoietin-alpha, Molgramostin, Sargramostim.
<b>Description</b>	GM-CSF Human Recombinant produced in insect cells is a single, glycosylated, polypeptide chain containing 127 amino acids (18-144) and having a molecular mass of 14.6kDa. GM-CSF is fused to a C-terminal His -tag (6x His) and purified by proprietary chromatographic techniques.
<b>Uniprot Accesion Number</b>	P04141
<b>Amino Acid Sequence</b>	The sequence of the first five N-terminal amino acids was determined and was found to be Ala-Pro-Ala-Arg-Ser.
<b>Source</b>	Insect Cells.
<b>Physical Appearance and Stability</b>	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized Granulocyte Macrophage Colony Stimulating Factor although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution GMCSF should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-
<b>Formulation and Purity</b>	The protein was lyophilized with PBS. Greater than 98.0% as determined by SDS-PAGE.
<b>Application</b>	
<b>Solubility</b>	It is recommended to reconstitute the lyophilized Granulocyte Macrophage Colony Stimulating Factor in sterile 18MΩ-cm H <sub>2</sub> O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
<b>Biological Activity</b>	The ED <sub>50</sub> as determined by the dose-dependant stimulation of the proliferation of human TF-1 cells (human erythroleukemic indicator cell line) is 0.1 ng/ml, corresponding to a Specific Activity of 10,000,000IU/mg.
<b>Shipping Format and Condition</b>	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**