

## 32-190042: GM-CSF (human) (Recombinant) (His)(Discontinued)

<b>Application :</b>	Functional Assay
<b>Reactivity :</b>	Human
<b>Alternative Name :</b>	CSF; CSF2; GMCSF; GM-CSF; Molgramostin; Sargramostim; Colony-stimulating Factor; Granulocyte-macrophage Colony-stimulating Factor

### Description

Source :E. coli

Specific Human GM-CSF is a 24 kDa glycoprotein produced by a variety of cell types, including T and B lymphocytes, macrophages, keratinocytes, eosinophils, neutrophils, and endothelial cells in response to cytokine or inflammatory stimuli. GM-CSF was initially identified on the basis of its capacity to stimulate the clonal proliferation of myeloid precursors in vitro. GM-CSF promotes a Th1 biased immune response, allergic inflammation, and the development of autoimmunity. GM-CSF are particularly effective as antitumor vaccines. GM-CSF regulates multiple biological activities through activation of the GM-CSF receptor (GMCSFR), a member of the type I cytokine receptor group comprising alpha and beta subunits.

### Product Info

<b>Amount :</b>	50 µg / 10 µg
<b>Purification :</b>	>=95% (SDS-PAGE)
<b>Content :</b>	Reconstitute 10µg vial with 100 µl sterile water to a concentration of 0.1mg/ml. Reconstitute 50µg vial with 100 µl sterile water to a concentration of 0.5mg/ml. Add 1X PBS to the desired protein concentration. Lyophilized from 0.2µm-filtered solution in 50mM Tris-HCl, 200mM NaCl, pH8.0.
<b>Storage condition :</b>	Short Term Storage +4°C ; Long Term Storage -20°C ; Avoid freeze/thaw cycles. PBS containing at least 0.1% BSA should be used for further dilutions. Stable for at least 1 year after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.
<b>Amino Acid :</b>	Human GM-CSF (aa 18-144) is fused at the C-terminus to a His-tag.

### Application Note

MW :~16kDa (SDS-PAGE)

Biological Activity: Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED50 for this effect is typically 0.1-0.6 ng/mL.

Endotoxin Content <0.1EU/µg protein (LAL test; Lonza).