



Recombinant Human His-GM-CSF protein

E13-010

Catalog Number:	E13-010-1, E13-010-2
Amount:	10µg, 50µg
Product description:	Human N-his-tag GM-CSF produced in E.coli is non-glycosylated polypeptide chain containing 155 amino acids (29-155 a.a; predicted MW=17.6kDa). It is fused to 28 amino acid His-tag at N-terminal. The recombinant protein was purified by Ni-NTA affinity column and ion exchange chromatography. Purity was greater than 95 % by Coomassie blue staining SDS-PAGE (Figure 1).
Background:	Colony-stimulating factors (CSFs) are a group of glycoproteins that regulate the proliferation and differentiation of hematopoietic cells. GM-CSF is expressed in response to inflammatory stimuli by various cell types including T lymphocytes, macrophages, fibroblasts and endothelial cells and stimulates specifically the proliferation of cells of macrophage and granulocyte lineages. GM-CSF enhances the production and survival of neutrophils, eosinophils and macrophages, which play a key role in the innate immune response. Accordingly, GM-CSF is used to restore hematopoietic dysfunctions, to stimulate the hyper-production of functionally primed effectors cells, and to augment host defense against infection and malignant diseases. Endogenous myeloid CSFs, such as GM-CSF, have been used to enhance the clinical management of immune suppressed patients with cancer.
GenBank accession number:	CAA26822
Amino acid sequence:	MGSSHHHHHSSGLVPRGSHMENLYFQGAPARSPSPSTQPWEHVNAIQEARRLLNLSRDTA AEMNETVEISEMFDLQEPTCLQTRLELYKQGLRGLTKLKGPLTMMASHYKHCPPTPETSC ATQITFESFKENLKDFLVIPFDCWEPVQE
Formulation:	Lyophilized from a 0.22µm filtered solution at a concentration of 1mg/ml in 50mM Tris-HCl pH 7.5, 150mM NaCl.
Reconstitution:	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water to a concentration of 1.0 mg/ml.
Shipping&Stability:	The Product is shipped at ambient temperature. Upon reconstitution, the preparation is stable for up to 1 month at 2-8°C. For long term storage, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C. Avoid repeated freeze/thaw cycles.

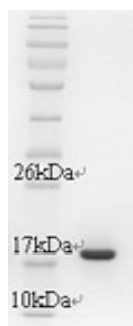


Figure1. The purity of recombinant protein GM-CSF (AE13-010). 12 % SDS-PAGE, 2.7µg protein

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