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Product datasheet for TP728221

Recombinant GM-CSF (Granulocyte-macrophage colony-stimulating factor), Human

Product data:

Description:Recombinant GM-CSF (Granulocyte-macrophage colony-stimulating factor), HumanSpecies:HumanExpression Host:E. coliExpression cDNA Clone or AA Sequence:APARSPSPSTQPWEHVNAIQEARRLLNLSRDTAAEMNETVEVISEMFDLQEPTCLQTRLELYKQGLRGSLT KLKGPLTMMASHYKQHCPPTPETSCATQIITFESFKENLKDFLLVIPFDCWEPVQE with polyhistidine tag at the N-terminus.Tag:His Tag (N-term)Predicted MW:The protein has a calculated MW of 15.4 kDa. The protein migrates as 15 kDa under reducing
Expression Host:E. coliExpression cDNA Clone or AA Sequence:APARSPSPSTQPWEHVNAIQEARRLLNLSRDTAAEMNETVEVISEMFDLQEPTCLQTRLELYKQGLRGSLT KLKGPLTMMASHYKQHCPPTPETSCATQIITFESFKENLKDFLLVIPFDCWEPVQE with polyhistidine tag at the N-terminus.Tag:His Tag (N-term)
Expression cDNA Clone or AA Sequence:APARSPSPSTQPWEHVNAIQEARRLLNLSRDTAAEMNETVEVISEMFDLQEPTCLQTRLELYKQGLRGSLT KLKGPLTMMASHYKQHCPPTPETSCATQIITFESFKENLKDFLLVIPFDCWEPVQE with polyhistidine tag at the N-terminus.Tag:His Tag (N-term)
or AA Sequence:KLKGPLTMMASHYKQHCPPTPETSCATQIITFESFKENLKDFLLVIPFDCWEPVQE with polyhistidine tag at the N-terminus.Tag:His Tag (N-term)
Predicted MW: The protein has a calculated MW of 15.4 kDa. The protein migrates as 15 kDa under reducing
condition (SDS-PAGE analysis).
Purity:>98% as determined by SDS-PAGE.
Buffer: The protein was lyophilized from a 0.2 μm filtered solution containing 1X PBS, pH 8.0.
Bioactivity:Measure by its ability to induce TF-1 cells proliferation. The ED50 for this effect is <80 pg/mL.
Endotoxin: <0.1 EU per 1 µg of the protein by the LAL method.
Reconstitution Method:Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H2O to a concentration not less than 100 µg/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.
Applications: Cell culture
Storage:Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at - 20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.
UniProt ID: <u>P04141</u>
Synonyms: colony stimulating factor 2, CSF2, CSF

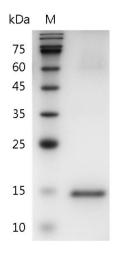


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Summary:Granulocyte-macrophage colony-stimulating factor (GM-CSF) was first identified as a Growth
Factors due to its ability to induce proliferation and differentiation of bone marrow
progenitors into granulocytes and macrophages. GM-CSF is produced by multiple cell types
including activated T cells, B cells, macrophages, endothelial cells and fibroblasts upon
receiving immune stimuli. GM-CSF stimulates stem cells to produce granulocytes and
monocytes functions as a cytokine.

Product images:



SDS- PAGE analysis of recombinant human GM-CSF

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