

Recombinant Mouse GM-CSF protein (His tag)

Catalog Number:PDEM100050



Note: Centrifuge before opening to ensure complete recovery of vial contents.

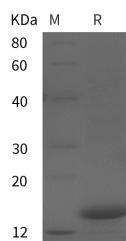
Description

Synonyms	Granulocyte-macrophage colony-stimulating factor;Csf2;GM-CSF;Colony-stimulating factor;Csfgm
Species	Mouse
Expression Host	E.coli
Sequence	Ala 18-Lys 141
Accession	P01587
Calculated Molecular Weight	13.5 kDa
Observed molecular weight	15 kDa
Tag	N-His

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	Please contact us for more information.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



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Background

Granulocyte-Macrophage Colony Stimulating Factor (GM-CSF) was initially characterized as a growth factor that can support the *in vitro* colony formation of granulocyte-macrophage progenitors. It is produced by a number of different cell types (including activated T cells, B cells, macrophages, mast cells, endothelial cells and fibroblasts) in response to cytokines of immune and inflammatory stimuli. Besides granulocyte-macrophage progenitors, GM-CSF is also a growth factor for erythroid, megakaryocyte and eosinophil progenitors. On mature hematopoietic, monocytes/macrophages and eosinophils, GM-CSF has a functional role on nonhematopoietic cells. It can induce human endothelial cells to migrate and proliferate. Additionally, GM-CSF can also stimulate the proliferation of a number of tumor cell lines, including

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osteogenic sarcoma, carcinoma and adenocarcinoma cell lines.

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