

Active GMP Recombinant Human GM-CSF Protein

Cat. No. GM-CSF-01HG **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human GM-CSF protein, was expressed in CHO-K1 cell-derived in an animal component free process under cGMP guidelines.
Species	Human
Source	CHO
Description	GM-CSF can act on hematopoietic stem cells and promote their differentiation and proliferation, while the cells formed are not limited to the neutrophil and monocyte-phagocyte systems. In vitro experimental studies revealed that with increasing GM-CSF concentration, proliferation of mononuclear macrophages was first stimulated, followed by neutrophils and finally eosinophils and megakaryocytes. In addition GM-CSF also stimulates the proliferation and differentiation of pluripotent stem cells and early erythroid cells.
Form	Lyophilized powder
Endotoxin	<20 EU/mg
Bio-activity	>1.0 x 10 ⁶ IU/mg
Purity	>98.0% by high performance liquid chromatography (SEC-HPLC) and SDS-PAGE.
Storage Buffer	10mM Phosphate-Buffered Saline (pH 7.2)

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Storage	Stable storage at 4°C for 7-10 days; for long-term storage, please store at -20°C after dispensing.
Sterility	Sterility
Instructions	It is recommended that lyophilized GMP rhGM-CSF be dissolved in water for injection or sterilized ultrapure water at a concentration of not less than 100 µg/ml, pending further dilution to working concentration.

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