



Recombinant human GMCSF

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

Catalog # KPG-ReHGMCSF20

GM-CSF is a key cytokine that drives the production and maturation of white blood cells from progenitor cells in the bone marrow, specifically targeting the development of granulocytes (like neutrophils) and macrophages. Beyond its role in hematopoiesis, it is a potent activator of mature immune cells, enhancing their ability to fight infections and promoting inflammatory responses. Due to these functions, GM-CSF is critically involved in both normal immune defense and the pathology of autoimmune and inflammatory diseases. The cytokine has a molecular mass each of 14.5 to 15 kilo Daltons. Recombinant human GMCSF can be intended for use in *in vivo* and *in vitro* applications. Recombinant human GMCSF is produced in E. coli BL21 transfected with the full-length sequence for the human GMCSF gene in the PET21b+.

PRODUCT INFORMATION

Content:

- 25 mg of recombinant human GMCSF

Storage and stability:

- Recombinant human GMCSF is shipped and stored at -20°C.
- Upon receipt, aliquot and store at -20°C for 12 months.

Note: Avoid repeated freeze-thaw cycles.

Quality control

- Purity greater than 98% as determined by SDS-PAGE.
- Endotoxin levels <0.1 EU/μg as determined using a kinetic chromogenic LAL assay.
- Biological activity was not tested.
- Did not Sterile. Please sterile after reconstitution using 0.22 μm filter.
- Expression system: E. coli BL21 strain
- Accession: P01375.1
- Protein length: Full length protein
- Animal free: Yes
- Carrier free: Yes
- Nature: Recombinant
- Predicted molecular weight: 14.5 to 15 kDa

CHARACTERISTICS

Source: Bacteria; E. coli BL21

Predicted molecular mass: ~ 15 kDa (as determined by SDS-PAGE)

Formulation:

Recombinant human GMCSF needs to be sterilized by filtered from 0.22 μm filter.
Solubility: 100 mg/ml in water

RELATED PRODUCTS

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TECHNICAL SUPPORT

Karmania Pars Gene Iran (Toll-Free):
+98 9132926113
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