

CHASELECTION

Recombinant Human GM-CSF

Catalog Number: CY023F0XXX

Synonym:

CSF-2, Pluripoiectin- α , Granulocyte ,
Colony-Stimulating Factor, CSF-3, MGI-1G,
GM-CSF beta, pluripoiectin

Source: *E.coli*

Structure :

NO.: NP_000749

AA Sequence:

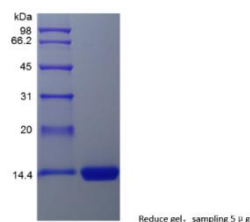
MAPARSPSPS TQPWEHVNAI QEARRLLNLS
RDAAEMNET VEVISMFIDL QEPTCLQTRL
ELYKQGLRGS LTKLKGPLTM MASHYKQHCP
PTPETSATQ IITFESFKEN LKDFLLVIPF
DCWEPVQE

Molecular Weight: 14.6 kDa

Purity:

 $\geq 95\%$ as determined by SDS-PAGE & HPLC.

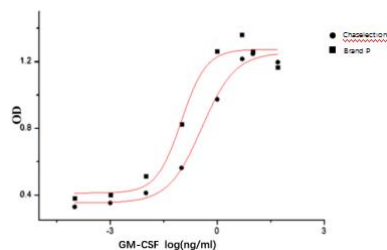
SDS-PAGE

Endotoxin: < 0.1 EU/ μ g

Formulation:

20 mM NaAc, trehalose and mannitol, pH 5.5

Biological Activity:



Determined by the dose-dependent stimulation of the proliferation of human umbilical vein endothelial cells (HUVEC) using a concentration range of 1.0-8.0 ng/ml.

Reconstitution:

1. Before opening, please briefly centrifuge the contents to the bottom;
2. It is recommended to initially dissolve in sterile deionized water to an appropriate concentration (recommended concentration is 0.2-1mg/ml);
3. If further dilution is required, it is recommended to dilute the solution with a solution containing carrier proteins (such as 0.1% BSA, 10% FBS, and 5% HSA).

Shipping & Storage:

The product is shipped with blue ice.

If long-term storage is required, this product should be stored at $\leq -20^{\circ}\text{C}$

Please avoid repeated freeze-thaw cycles

1. Dry powder can be stored at $\leq -20^{\circ}\text{C}$ for at least 24 months;
2. After reconstitution, it can be stored for 1 month under sterile conditions at $2-8^{\circ}\text{C}$;
3. After reconstitution, it can be stored for 12 months under sterile conditions at -20°C to -70°C .

Description:

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 cytokine 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 non-hematopoietic 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 osteogenic sarcoma, carcinoma and adenocarcinoma cell lines.

