

# Recombinant Rhesus Macaque Granulocyte Colony Stimulating Factor (Rhesus Macaque G-CSF)

## Product Information

| Product Name   | Cat#      | Size   |
|--|-----------|--------|
| Recombinant Rhesus Macaque Granulocyte Colony Stimulating Factor<br>(Rhesus Macaque G-CSF) | 91105ES10 | 10 µg  |
|  | 91105ES60 | 100 µg |
|  | 91105ES76 | 500 µg |

## Product Description

G-CSF is a hematopoietic growth factor that stimulates the development of committed progenitor cells to neutrophils and enhances the functional activities of the mature end-cell. It is produced in response to specific stimulation by a variety of cells, including macrophages, fibroblasts, endothelial cells and bone marrow stroma. G-CSF is being used clinically to facilitate hematopoietic recovery after bone marrow transplantation. Human and murine G-CSF are cross-species reactive.

## Product Properties

|                            |   |
|----------------------------|---|
| <b>Synonyms</b>            | Granulocyte Colony-Stimulating Factor, CSF-3, MGI-1G, GM-CSF beta, pluripoietin   |
| <b>Accession</b>           | F7H1Q6  |
| <b>GeneID</b>              | 698961  |
| <b>Source</b>              | E.coli-derived Rhesus Macaque G-CSF protein,Thr27-Ser200.   |
| <b>Molecular Weight</b>    | Approximately 18.9 kDa  |
| <b>AA Sequence</b>         | TPLGPASSLP QSFLKCLEQ VRKIQGDGAA LQEKLCATYK LCHPEELVLL RHSLGIPWAP<br>LSSCPSQALQ LTGCLSQLHS SLFLYQGLLQ ALEGISPELS PTLDTLQLDI ADFATTIWQQ<br>MEDLGMAPAL QPTQGAMPAF TSAFQRRAGG VLVASHLQRF LELAYRVLRLH LAQS   |
| <b>Tag</b>                 | None  |
| <b>Physical Appearance</b> | Sterile Filtered White lyophilized (freeze-dried) powder.   |
| <b>Purity</b>              | > 98% by SDS-PAGE and HPLC analyses.<br><br>Fully biologically active when compared to standard. The ED <sub>50</sub> as determined by a cell proliferation assay using murine NFS-60 cells is less than 0.05 ng/mL, corresponding to a specific activity of > 2.0 × 10 <sup>7</sup> IU/mg. |
| <b>Biological Activity</b> |   |
| <b>Endotoxin</b>           | < 0.1 EU/µg of protein as determined by LAL method.   |
| <b>Formulation</b>         | Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.<br><br>We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom.  |
| <b>Reconstitution</b>      | Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20°C. Further dilutions should be made in appropriate buffered solutions.                   |

## Shipping and Storage

The products are shipped with ice pack and can be stored at -20°C to -80°C for 1 year.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

## Cautions

1. Avoid repeated freeze-thaw cycles.
2. For your safety and health, please wear lab coats and disposable gloves for operation.
3. For research use only.