

## G-CSF, Rat (HEK 293-expressed)

**Cat. No.:** Z03101-1

**Size:** 1.0 mg

**Synonyms:** Granulocyte, Colony-Stimulating Factor, CSF-3, MGI-1G, GM-CSF $\beta$ , pluripoietin

### Description:

Among the family of colony-stimulating factors, Granulocyte Colony-Stimulating Factor (G-CSF) is the most potent inducer of terminal differentiation of leukemic myeloid cell lines into granulocytes and macrophages. G-CSF synthesis can be induced by bacterial endotoxins, TNF, Interleukin-1 and GM-CSF. Prostaglandin E2 inhibits G-CSF synthesis. In epithelial, endothelial, and fibroblastic cells, secretion of G-CSF is induced by Interleukin-17.

### Amino Acid Sequence:

```
00001 IPLLTVSSLP PSLPLPRSFL LKSLEQVRKI QARNTLELQ
00041 LCATYKLCHP EELVLFHSL GIPKASLSSC SSQALQQTIC
00081 LSQLHSLFL YQGLLQALAG ISSELAPLTD MLHLDVDNFA
00121 TTIWQQMESL GVAPTVQPTQ STMPIFTSAF QRRAGGVLVT
00161 SYLQSFLETA HHALHHLPRP AQKHFPELFI ISI
```

**Source:** HEK 293

**Species:** Rat

**Biological Activity:** ED<sub>50</sub> < 5 pg/ml, measured in a cell proliferation assay using NFS-60 cells.

**Molecular Weight:** 25 28 kDa, observed by reducing SDS-PAGE.

**Formulation:** Lyophilized after extensive dialysis against PBS.

**Reconstitution:** Reconstituted in ddH<sub>2</sub>O or PBS at 100  $\mu$ g/ml.

**Purity:** > 95% as analyzed by SDS-PAGE and HPLC.

**Endotoxin Level:** < 0.2 EU/ $\mu$ g, determined by LAL method.

**Storage:** Lyophilized recombinant Rat Granulocyte Colony-Stimulating Factor (G-CSF) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Rat Granulocyte Colony-Stimulating Factor (G-CSF) should be stable up to 1 week at 4°C or up to 2 months at -20°C.