

CSF-3, MGI-1G
Catalog # PVGS1336**Specification**

CSF-3, MGI-1G - Product InformationPrimary Accession [P97712](#)**Species**

Rat

Sequence

MIPLLTVSSL PPSLPLPRSF LLKSLEQVRK IQARNTLEL QLCATYKLCH PEELVLF GHS LGIPKASLSS
CSSQALQQT KCLS QLHSGLF LYQGLLQALA GISSELAPTL DMLHLDVDNF ATTIWQQMES LGVAPTVQPT
QSTMPIFTSA FQRRAGGVLV TSYLQS FLET AHHALHHLPR PAQKHFPE SLFISI

Purity

> 95% by SDS-PAGE analysis.

Endotoxin Level

< 0.2 EU/ µg, determined by LAL method.

Formulation**Lyophilized after extensive dialysis against
20mM Citric Acid****Reconstitution**Reconstituted in ddH₂O at 100 µg/mL.**CSF-3, MGI-1G - Additional Information****Target Background**

Granulocyte Colony-Stimulating Factor (G-CSF) is a hematopoietic cytokine belonging to the four-helix bundle cytokine superfamily. G-CSF is produced by monocytes, macrophages, fibroblasts, and endothelial cells. Its expression is highly regulated and induced by a variety of agents, including Tumor Necrosis Factor (TNF), Interleukin-1 (IL-1), Interferon γ (IFN-γ), and Granulocyte-Macrophage Colony-Stimulating Factor (GM-CSF). G-CSF binds to the CSF-specific high affinity receptors expressed on neutrophilic granulocyte lineage. *In vivo* G-CSF regulates the production of neutrophilic granulocytes, a critical part of host defense systems, and helps the maturation of leukemic cell lines. G-CSF is widely employed clinically because of its fairly innocuous safety profile. Recombinant **rat Granulocyte Colony-Stimulating Factor (rrG-CSF)** produced in *E. coli* is a single non-glycosylated polypeptide chain containing of 194 amino acids. A fully biologically active molecule, rrG-CSF has a molecular mass of 21.4 kDa analyzed by non-reducing SDS-PAGE and is obtained by proprietary chromatographic techniques at .

CSF-3, MGI-1G - Protein Information**CSF-3, MGI-1G - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CSF-3, MGI-1G - Images