

Overview

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| Synonyms | Granulocyte Colony-Stimulating Factor, CSF-3, MGI-1G, GM-CSFb, pluripoietin |
| Description | Granulocyte Colony-Stimulating Factor (G-CSF) , also known as CSF-3 and MGI-1G, is a cytokine and hormone belonging to the IL-6 superfamily. It is expressed by monocytes, macrophages, endothelial cells, fibroblasts and bone marrow stroma. G-CSF stimulates the bone marrow to produce granulocytes and stem cells, and specifically stimulates the proliferation and differentiation of the neutrophilic granulocyte lineage. G-CSF has been used to stimulate white blood cell production after chemotherapy. It has also been used to boost the number of hematopoietic stem cells after bone marrow transplantation. |
| Accession No | P09920 |
| Species | Mouse |
| Source | CHO |
| Biological Activity | ED ₅₀ <0.02ng/ml, measured in a cell proliferation assay using NFS-60 cells. |
| Sequence | VPLVTVSALP PSLPLPRSFL LKSLEQVRKI QASGSVLLEQ LCATYKLCHP EELVLLGHSL GIPKASLSGC SSQALQQTQC LSQLHSGCLC YQGLLQALSG ISPALAPTLD LLQLDVANFA TTIWQQMENL GVAPTVQPTQ SAMPAFTSAF QRRAGGVLAI SYLQGFL ETA RLALHHLA |

Properties

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| Measured Molecular Weight | 22-24 kDa, observed by reducing SDS-PAGE. |
| Purity | > 95% as analyzed by SDS-PAGE and HPLC. |
| Formulation | Lyophilized after extensive dialysis against PBS. |
| Reconstitution | Reconstituted in ddH ₂ O or PBS at 100 µg/ml. |
| Endotoxin Level | < 0.2 EU/µg, determined by LAL method. |
| Storage | Lyophilized recombinant murine G-CSF remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, murine G-CSF should be stable up to 1 week at 4°C or up to 2 months at -20°C. |
| Note | For research use only |

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