Human Granulocyte Colony-Stimulating Factor (GCSF), Recombinant Protein

Catalogue number: 153801
Sub-type: Cytokine
Images:

Contributor

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Institute: International Centre For Genetic Engineering And Biotechnology (ICGEB)
Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: Human Granulocyte Colony-Stimulating Factor (GCSF), Recombinant Protein

Alternate name: Human Granulocyte colony-stimulating factor, Colony-stimulating factor 3, CSF-3, MGI-1G, Pluripoietin

Class:
Conjugate:
Description: Granulocyte colony-stimulating factor (G-CSF) is a member of the CSF family of glycoproteins that regulate hematopoietic cell proliferation, differentiation, and function. It is a key cytokine involved in the production of neutrophils and the stimulation of granulocyte colony formation from hematopoietic progenitor cells. G-CSF causes a range of effects including a transient reduction of SDF-1 expression, the activation of metalloproteases that cleave VCAM-1, and the release of norepinephrine from the sympathetic nervous system, leading to the release or mobilization of hematopoietic stem cells from the bone marrow into the periphery. The G-CSF receptor is expressed on a variety of hematopoietic cells, including myeloid-committed progenitor cells, neutrophils, granulocytes, and monocytes. In addition to hematopoietic cells, G-CSF is also expressed in cardiomyocytes, neuronal cells, mesothelial cells, and endothelial cells. Binding of G-CSF to its receptor leads to activation of the JAK/STAT, MAPK, PI3K, and AKT signal transduction pathways.
Purpose:
Parental cell:
Organism:
Tissue:
Model:
Gender:
Isotype:
Reactivity:

Selectivity:
Host:
Immunogen:
Immunogen UNIPROT ID:
Sequence:
MTPLGPASSLPQSFLLKCLEQVRKIQGDGAALQEKLVSECATYKLCHPEELVLLGHSLGIPWAPLSSCPSQ
Growth properties:
Production details:
Formulation:
Recommended controls:
Bacterial resistance:
Selectable markers:
Additional notes: Met at the N-terminus

Target details

Target:

Target alternate names:

Target background:

Molecular weight: 18.8 kDa

Ic50:

Applications

Application:
Application notes: Molecular Weight: 18.8 kDa UniProt number P09919-2 (Met at the N-terminus)

Handling

Format:
Concentration:
Passage number:
Growth medium:
Temperature:
Atmosphere:
Volume:
Storage medium:
Storage buffer:
Storage conditions: 4° C
Shipping conditions: Dry Ice

Related tools

Related tools:

References

References: