

## Overview

<b>Synonyms</b>	Granulocyte Colony-Stimulating Factor, CSF-3, MGI-1G, GM-CSF beta, pluripoinetin.
<b>Description</b>	<b>Human Granulocyte Colony Stimulating Factor (G-CSF)</b> contains internal disulfide bonds. Among the family of colony-stimulating factors, Granulocyte Colony Stimulating Factor (G-CSF) is the most potent inducer of terminal differentiation to granulocytes and macrophages of leukemic myeloid cell lines. The synthesis of Granulocyte Colony Stimulating Factor (G-CSF) can be induced by bacterial endotoxins, TNF, Interleukin-1 and GM-CSF. Prostaglandin E2 inhibits the synthesis of Granulocyte Colony Stimulating Factor (G-CSF). In epithelial, endothelial, and fibroblastic cells, the secretion of Granulocyte Colony Stimulating Factor (G-CSF) is induced by Interleukin-17.
<b>Species</b>	Human
<b>Source</b>	CHO
<b>Biological Activity</b>	ED <sub>50</sub> < 0.1 ng/ml, determined by the dose-dependent stimulation of the proliferation of murine M-NFS-60 cells, corresponding to a specific activity of >1 x 10 <sup>7</sup> units/mg.
<b>Sequence</b>	<p>TPLGPASSLP QSFLLKCLEQ VRKIQGDGAA LQEKLKATYK  LCHPEELVLL GHSLGIPWAP LSSCPSQALQ LAGCLSQLHS  GLFLYQGLLQ ALEGISPELG PTLDTLQLDV ADFATTIWQQ  MEELGMAPAL QPTQGAMPAF ASAFQRRAGG VLVASHLQSF  LEVSYRVLRH LAQP</p>

## Properties

<b>Measured Molecular Weight</b>	18.7kDa, observed by non-reducing SDS-PAGE.
<b>Purity</b>	> 95% as analyzed by SDS-PAGE and HPLC.
<b>Formulation</b>	Lyophilized after extensive dialysis against PBS.
<b>Reconstitution</b>	Reconstituted in ddH <sub>2</sub> O or PBS at 100 µg/ml.
<b>Endotoxin Level</b>	<0.2 EU/µg, determined by LAL method.
<b>Storage</b>	Lyophilized recombinant <b>human Granulocyte Colony Stimulating Factor (G-CSF)</b> remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rhG-CSF should be stable up to 1 week at 4°C or up to 2 months at -20°C.
<b>Note</b>	For research use only

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