

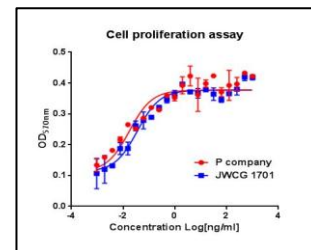
## DATA SHEET

### Product Information

<b>Product Name</b>	: <b>Recombinant Human Granulocyte Colony-Stimulating Factor (rhG-CSF)</b>
<b>Synonyms</b>	: GCSF, CSF-3, MGI-1G, pluripoietin, GM-CSF beta
<b>Description</b>	: G-CSF is a glycoprotein that stimulates the bone marrow to produce granulocytes and stem cells and release them into the bloodstream. Functionally, it is a cytokine and hormone, a type of colony-stimulating factor, and is produced by endothelium, macrophages, and a number of other immune cells. The pharmaceutical analogs of naturally occurring G-CSF are called filgrastim and lenograstim. G-CSF also stimulates the survival, proliferation, differentiation, and function of neutrophil precursors and mature neutrophils. (Ref. From Wikipedia)
<b>NCBI Accession No.</b>	: NM_172219.2
<b>Amino acid sequence</b>	: <b>MTPLGPASSLPQSFLKCLEQVRKIQGDGAALQEKLKATYKLCHEPEELVLLG HSLGIPWAPLSSCPSQALQLAGCLSQLHSGFLFYQGLLQALEGISPELGPTL DTLQLDVAADFATTIWQOMEELGMAPALQPTQGAMPAFASAFQRRAGGVLVAS HLQSFLEVSYRVLRLHQAQP*</b>
<b>Molecular Mass</b>	: 18.8kDa (175 aa)
<b>Protein Tags</b>	: No tagging
<b>Source</b>	: <i>E. coli</i> .
<b>Cat. No.</b>	: JW-H021-0010, JW-H021-0025, JW-H021-0100, JW-H021-0250, JW-H021-0500, JW-H021-1000
<b>Storage</b>	: Should be at $\leq -70$ °C as undiluted aliquots of handy size. Avoid repeated freezing and thawing.
<b>Cross Reactivity</b>	: Human, Mouse, Monkey, Pig

### Quality Control

Test items	Specifications
<b>Appearance</b>	: Clear, colorless liquid
<b>Purity</b>	: Greater than 98 % by RP-HPLC and SDS-PAGE
<b>Specificity</b>	: Using Western blot, detection
<b>Concentration</b>	: 0.1 mg/ml, Bradford method Determined by proliferation of M-NFS-60 indicator cells.
<b>Biological Activity</b>	: The ED50 is $\leq 0.1$ ng/ml corresponding to a specific activity of $\geq 1 \times 10^7$ units/mg.
<b>Endotoxin</b>	: Less than 0.1 EU/ $\mu$ g as determined by the LAL method
<b>Formulation</b>	: 25mM Sodium acetate, 5% Glycerol (pH 4.5) without preservative or carrier proteins.
<b>Stability</b>	: Stable for up to 12 months at $-70$ °C. Stable for a month at 4 °C.
<b>Sterility</b>	: Sterilized through a 0.2 $\mu$ m membrane filter and packaged aseptically. Culture for 2 weeks, no growth



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