

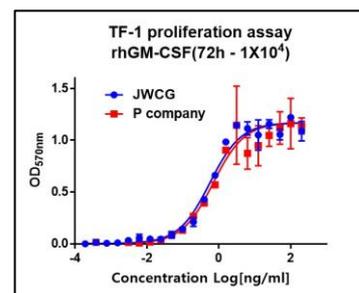
## DATA SHEET

### Product Information

<b>Product Name</b>	: <b>Recombinant Human Granulocyte Macrophage Colony Stimulating Factor (rhGM-CSF)</b>
<b>Synonyms</b>	: Colony-stimulating factor (CSF)
<b>Description</b>	: Recombinant human GM-CSF produced in <i>E. coli</i> is a non-glycosylated 14 kDa protein containing 127 amino acids. GM-CSF produced by monocytes, T-lymphocytes, endothelial cells and fibroblasts. It is a hematopoietic growth factor that stimulates the development of macrophages and neutrophils and promotes the proliferation of early erythroid megakaryocytes
<b>NCBI Accession No.</b>	: NM_000758.3
<b>Amino acid sequence</b>	: MAPARSPSPSTQPWEHVNAIQEARLLNLSRDTAEMNETVEVISEMFDLQ EPTCLQTRLELYKQGLRGS�TKLKGPLTMMASHYKQHCPTPETSCATQII TFESFKENLKDFFLLVLPFDCWEPVQE
<b>Molecular Mass</b>	: 14.57 kDa (128 aa)
<b>Protein Tags</b>	: No tagging
<b>Source</b>	: <i>E. coli</i> .
<b>Cat. No.</b>	: JW-H010-0010, JW-H010-0025, JW-H010-0050, JW-H010-0100, JW-H010-0250, JW-H010-0500, JW-H010-1000
<b>Storage</b>	: Should be at $\leq -70$ °C as undiluted aliquots of handy size. Avoid repeated freezing and thawing.
<b>Cross Reactivity</b>	: Mouse, 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 measuring the proliferation of murine TF-1 indicator cells.
<b>Biological Activity</b>	: The ED <sub>50</sub> is < 0.1 ng/ml, corresponding to a specific activity of > 5.0 × 10 <sup>6</sup> U/mg.
<b>Endotoxin</b>	: Less than 0.2 EU/μg as determined by the LAL method
<b>Formulation</b>	: PBS, 5% glycerol (pH 7.4) 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 μm membrane filter and packaged aseptically. Culture for 2 weeks, no growth



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