

Data Sheet**Recombinant Human Granulocyte Macrophage-Colony Stimulating Factor (rh GM-CSF)****Preclinical Grade - Order No.: 1412-010 / 1412-050**

Source	A DNA sequence encoding the mature GM-CSF protein was expressed in <i>E. coli</i>
Production	Final manufacturing steps and QC are performed in a GMP facility
Molecular mass	The methionyl form of the <i>E. coli</i> expressed mature human GM-CSF contains 128 amino acid residues and has a molecular mass of 14.5 kDa
Purity	≥ 95%, as determined by SDS-PAGE
Endotoxin level	< 1000 EU/mg, as determined by LAL gel clot test
Activity	≥ 6 × 10 ⁶ IU/mg calibrated against the 1 st International Standard NIBSC, # 88/646 Measured in a cell proliferation assay using a human factor-dependent cell line, TF-1
Sterility	Sterility test of the vial product (direct inoculation)
Formulation	Lyophilized from a 0.2 µm-filtered solution in PBS
Mass per vial	50 µg or 10 µg, as determined by spectrophotometrical measurement at 280 nm
Transport	Ambient temperature
Storage at	-20°C or below. Avoid repeated freeze-thaw cycles
Shelf life	3 years from date of shipment

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Manufacturer

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