

## Data Sheet

# CellGenix® Recombinant Human Granulocyte-Macrophage Colony-Stimulating Factor (rh GM-CSF)

Preclinical Grade - Order No.: 1412-010 (10 μg), 1412-050 (50 μg)

#### **Product Characteristics**

Source E. coli

**Description** Human GM-CSF, accession # P04141, Ala18-Glu144

Molecular mass 14.5 kDa

Formulation Lyophilized from a 0.2 µm-filtered solution containing 1.5 mM potassium phosphate,

8.1 mM sodium phosphate, 2.7 mM potassium chloride, and 137 mM sodium

chloride, pH 7.5.

**Intended use** For preclinical ex vivo use. Not intended for therapeutic use.

### **Quality Parameters**

Activity  $\geq 6 \times 10^6 \text{ IU/mg}$  calibrated against NIBSC #88/646

Measured in a cell proliferation assay using a GM-CSF-dependent cell line, TF1

**Purity** ≥ 95 %, as determined by SDS-PAGE (under reducing and non-reducing conditions,

visualized by Coomassie staining)

**Endotoxin** < 1000 EU/mg, as determined by LAL gel clot test

Sterility Sterility test of the vialed product (direct inoculation)

**Mass per vial** 1412-010: 10 μg, 1412-050: 50 μg

Animal-derived ADCF Level 2: The final product contains neither animal- nor human-derived component-free materials. ADCF Level 2 cytokines are produced in our dedicated animal-free facility.

No animal-derived components are used throughout the complete production

process. All ADCF Level 2 cytokines are produced in E. coli.



## Shipment & Storage

**Transport** Ambient temperature. Please refer to Technote (www.cellgenix.com)

**Expiry** 3 years from date of shipment

Storage & Stability Store lyophilized cytokine at -20°C to -80 °C.

Store a 250 μg/ml cytokine solution:

• 4 weeks at 2°C to 8°C under sterile conditions after reconstitution. Store in the original container.

• 4 months at -20°C to -80°C under sterile conditions after reconstitution. Store in 60 μl aliquots in polypropylene cryogenic vials.

Avoid repeated freeze/thaw cycles.

## **Handling Instructions**

**Reconstitution** Recommended in sterile water to a final concentration of 100 μg/ml (for 10 μg vials)

or 250 μg/ml (for 50 μg vials)

**Dilution** Recommended in CellGenix® serum-free media. For dilution with protein free

medium, a carrier protein (0.1-1 % albumin or 1-10 % appropriate serum) has to be included. Failure to dilute product according to these instructions may result in loss

of activity.

## **Quality Statement**

Final manufacturing steps and QC are performed in a GMP facility.

