

## Prime Gene Recombinant Human Granulocyte-Macrophage **Colony Stimulating Factor GMP** (rHuGM-CSF GMP)

## PrimeGene Technical Data Sheet

**Catalog Number:** 

GMP-102-03

Source:

Escherichia coli.

**Molecular Weight:** 

Approximately 14.5 kDa, a single non-glycosylated polypeptide chain containing 127 amino acids.

**Quantity:** 

 $5\mu g/100\mu g/1mg$ 

**AA Sequence:** 

APARSPSPST QPWEHVNAIQ EARRLLNLSR DTAAEMNETV EVISEMFDLQ EPTCLQTRLE

LYKQGLRGSL TKLKGPLTMM ASHYKQHCPP TPETSCATQI ITFESFKENL KDFLLVIPFD

**CWEPVOE** 

**Purity:** 

> 98 % by SDS-PAGE and HPLC analyses.

**Biological Activity:** 

Fully biologically active when compared to standard. The ED<sub>50</sub> as determined by a cell proliferation assay using human TF-1 cells is less than 0.1 ng/ml, corresponding to a specific activity of  $> 1.0 \times$ 

 $10^7$  IU/mg.

**Physical Appearance:** 

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.

**Endotoxin:** 

Less than 0.01 EU/µg of rHuGM-CSF GMP as determined by LAL method.

**Reconstitution:** 

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and

stored at  $\leq$  -20 °C. Further dilutions should be made in appropriate buffered solutions.

**Shipping:** 

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature

recommended below.

Stability & Storage:

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

12 months from date of receipt, -20 to -70 °C as supplied.

2.500m AU

1 month, 2 to 8 °C under sterile conditions after reconstitution.

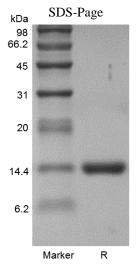
3 months, -20 to -70 °C under sterile conditions after reconstitution.

Usage:

This GMP product can be for research use or further manufacturing use.

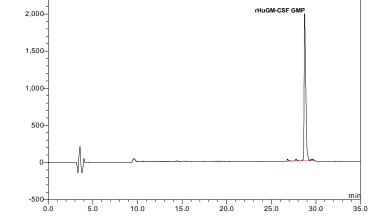
**Quality statement:** 

The manufacture and testing of this product is in compliance with ICH O7a guidelines.



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**HPLC** 

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