

## Recombinant Mouse G-CSF (C-6His)

Catalog # EPT110

**Expression Host** Human Cells

**DESCRIPTION** Recombinant Mouse Granulocyte Colony-Stimulating

Factor is produced by our Mammalian expression

system and the target gene encoding Val31-Ala208 is

expressed with a 6His tag at the C-terminus.

Accession P09920

**Synonyms** Granulocyte colony-stimulating factor; Csf3; G-CSF

Mol Mass 19.8 KDa

**AP Mol Mass** 25 KDa, reducing conditions

**Purity** Greater than 95% as determined by reducing

SDS-PAGE.

**Endotoxin** Less than 0.001 ng/ $\mu$ g (0.01 EU/ $\mu$ g) as determined by

LAL test.

**FORMULATION** Lyophilized from a 0.2 µm filtered solution of 10mM

Sodium Citrate, 0.1% Tween 20, pH 3.5.

**RECONSTITUTION** Always centrifuge tubes before opening.Do not mix by

vortex or pipetting.



www.elkbiotech.com



It is not recommended to reconstitute to a concentration less than 100µg/ml.

Dissolve the lyophilized protein in distilled water.

Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

**SHIPPING** 

The product is shipped at ambient temperature.

Upon receipt, store it immediately at the temperature listed below.

**STORAGE** 

Lyophilized protein should be stored at < -20 ° C, though stable at room temperature for 3 weeks.

Reconstituted protein solution can be stored at 4-7°C for 2-7 days.

Aliquots of reconstituted samples are stable at < -20° C for 3 months.

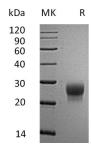
**BACKGROUND** 

Granulocyte colony-stimulating factor (G-CSF) is a growth factor and an essential cytokine which belongs to the IL-6 superfamily. Granulocyte/macrophage colony-stimulating factors are cytokines that act in hematopoiesis by controlling the production, differentiation, and function of 2 related white cell populations of the blood, the granulocytes and the monocytes-macrophages. G-CSF binding to its





receptor G-CSF-R which belongs to the cytokine receptor type I family depends on the interaction of alpha-helical motifs of the former and two fibronectin type III as well as an immunoglobulin-like domain of the latter. G-CSF is a cytokine that have been demonstrated to improve cardiac function and perfusion in myocardial infarction. And it was initially evaluated as a stem cell mobilizer and erythropoietin as a cytoprotective agent.



**SDS-PAGE** 

