


## Rat G-CSF Protein

Cat #: PRP1220

Size: 10 µg/50 µg/500 µg

### Product Information

	<b>Product Name:</b> Rat G-CSF Protein		
<b>REF</b>	<b>Catalog Number:</b> PRP1220	<b>LOT</b>	<b>Lot Number:</b> Refer to product label
	<b>Purity:</b> >98% as determined by SDS-PAGE		
	<b>Storage:</b> Store at -20°C		<b>Preparation method:</b> <i>E. coli</i>
	<b>Shipping:</b> The product is shipped at ambient temperature.		

**Background:** G-CSF is a hematopoietic growth factor, which controls the production, differentiation and function of granulocytes and enhances the functional activity of mature terminal cells. Three transcription variants of G-CSF gene encoding three different subtypes have been found. Granulocyte/macrophage colony stimulating factor is a cytokine that plays a role in hematopoiesis by controlling the production, differentiation and function of two related leukocyte populations (granulocyte and monocyte-macrophage) in blood. G-CSF is clinically used to promote hematopoietic recovery after bone marrow transplantation.

**Sequence:** Amino acid sequence derived from Rat G-CSF(P97712) (Ile22-Ile214) was expressed with 6xHis tag at N-terminus.

**Protein length:** The Rat G-CSF consists of 193 amino acids and predicts a molecular mass of 21.3 kDa.

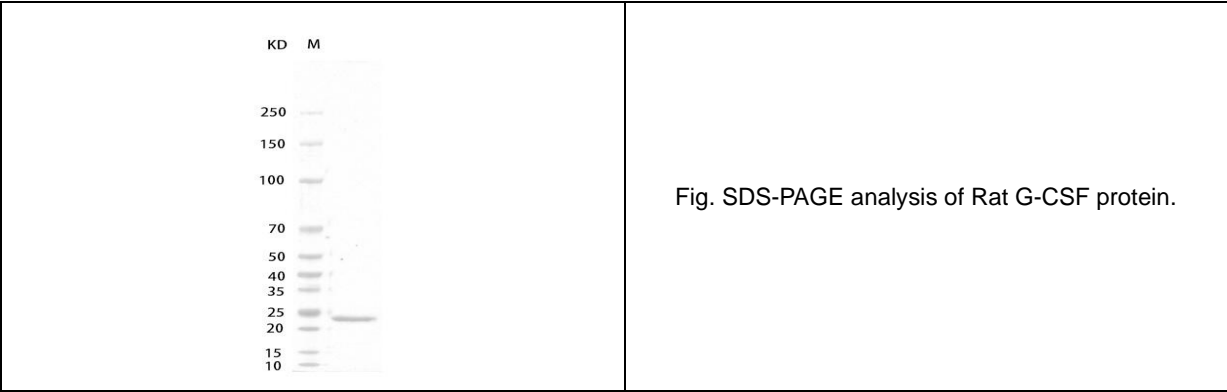
**Biological Activity:** Measured by its ability to induce proliferation in M-NFS-60 cells. The ED<sub>50</sub> for this effect is 4.802 ng/mL.

**Endotoxin:** < 0.1 EU per µg of the protein as determined by the LAL method.

**Formulation:** Liquid in from sterile 20mM Tris, 250mM NaCl, 10% Glycerol, pH 8.0.

**Storage Instructions:** The Rat G-CSF protein product should be stored desiccated below -20°C. The protein should be stored at 4°C between 2-7 days and for future use below -20°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

**Usage notes:** Always centrifuge tubes before opening. It is recommended to dilute the protein using the PBS buffer or Protein storage solution to working concentration.



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