


Human G-CSF Protein

Cat #: PRP1045

Size: 10 µg/50 µg/500 µg

Product Information

	Product Name: Human G-CSF Protein		
REF	Catalog Number: PRP1045	LOT	Lot Number: Refer to product label
	Purity: >98% as determined by SDS-PAGE		
	Storage: Store at -20°C		Preparation method: E.coli
	Shipping: The product is shipped at ambient temperature.		

Background: Granulocyte colony-stimulating factor (G-CSF) is a member of the CSF family of glycoproteins that regulate hematopoietic cell proliferation, differentiation, and function. It is a key cytokine involved in the production of neutrophils and the stimulation of granulocyte colony formation from hematopoietic progenitor cells (Metcalf & Nicola). G-CSF causes a range of effects including a transient reduction of SDF-1 expression, the activation of metalloproteases that cleave VCAM-1, and the release of norepinephrine from the sympathetic nervous system, leading to the release or mobilization of hematopoietic stem cells from the bone marrow into the periphery.

Sequence: Amino acid sequence derived from Human G-CSF (Thr31-Pro204) was expressed.

Protein length: The recombinant Human G-CSF protein consists of 174 amino acids with a Met in N terminal and predicts a molecular mass of 18.7 kDa.

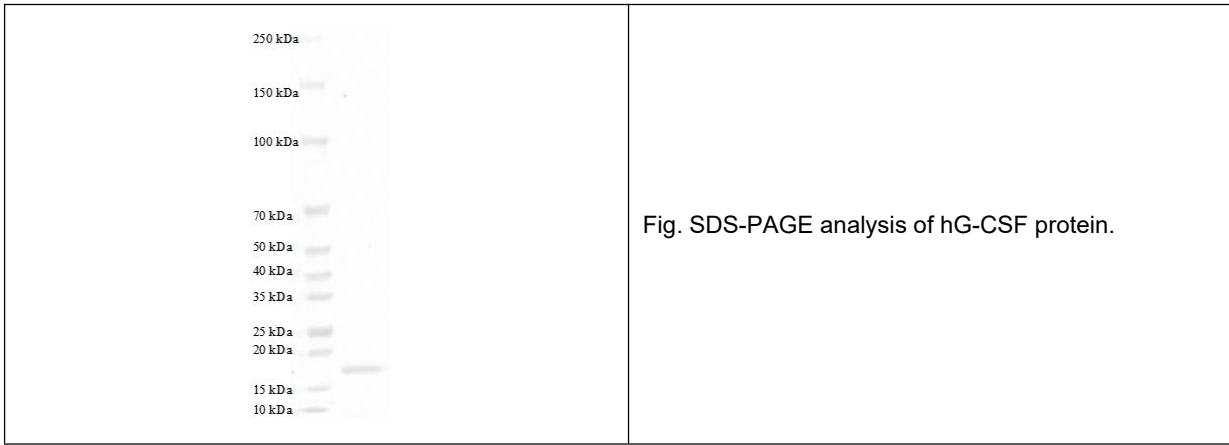
Biological Activity: Testing in progress.

Endotoxin: < 1 EU per µg of the protein as determined by the LAL method.

Formulation: Lyophilized from PBS.

Storage Instructions: Lyophilized recombinant Human G-CSF protein product should be stored desiccated below -20°C. Upon reconstitution, 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: Centrifuge tubes before opening. It is recommended to reconstitute the lyophilized recombinant Human G-CSF protein using the buffer we provided not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.



Note: The product listed herein is for research use only and is not intended for use in human or clinical diagnosis. Suggested applications of our products are not recommendations to use our products in violation of any patent or as a license. We cannot be responsible for patent infringements or other violations that may occur with the use of this product.