

### Recombinant human G-CSF protein ab9692

#### Description

<b>Product name</b>	Recombinant human G-CSF protein
<b>Biological activity</b>	The ED <sub>50</sub> , determined by the dose-dependent stimulation of the proliferation of murine NSF-60 cells, is < 0.1 ng/ml, corresponding to a specific activity of > 1 x 10 <sup>7</sup> units/mg.
<b>Purity</b>	> 95 % SDS-PAGE. Sterile filtered Greater than 98% pure by SDS-PAGE and HPLC analyses.
<b>Endotoxin level</b>	< 0.100 Eu/μg
<b>Expression system</b>	Escherichia coli
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Sequence</b>	Human G-CSF is a 18.7 kDa protein containing 174 amino acid residues: TPLGPASSLP QSFLKCLEQ VRKIQGDGAA LQEKLCATYK LCHPEELVLL GHSLG IPWAPLSSCPSQALQ LAGCLSQLHS GLFLYQGLLQ ALEGISPELG P TLDTLQLDV ADFATTWQQMEELGMAPAL QPTQGAMPAF ASAFQRRRA GG VLVASHLQSF LEVSYRVLRLH LAQP

#### Specifications

Our **Abpromise guarantee** covers the use of **ab9692** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	Functional Studies SDS-PAGE
<b>Form</b>	Lyophilized
<b>Additional notes</b>	The ED <sub>50</sub> as determined by the dose-dependent stimulation of the proliferation of murine NFS-60 cells is ≤ 0.1 ng/ml, corresponding to a specific activity of ≥ 1 x 10 <sup>7</sup> units/mg.

#### Preparation and Storage

<b>Stability and Storage</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.  This product is an active protein and may elicit a biological response in vivo, handle with caution.
<b>Reconstitution</b>	For lot specific reconstitution information please contact our Scientific Support Team.

## General Info

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<b>Function</b>	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. This CSF induces granulocytes.
<b>Sequence similarities</b>	Belongs to the IL-6 superfamily.
<b>Post-translational modifications</b>	O-glycan consists of Gal-GalNAc disaccharide which can be modified with up to two sialic acid residues (done in recombinantly expressed G-CSF from CHO cells).
<b>Cellular localization</b>	Secreted.

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**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

## Our Abpromise to you: Quality guaranteed and expert technical support

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- Replacement or refund for products not performing as stated on the datasheet
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