

## Product datasheet for AR50002PU-S

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## G-CSF (31-204) Human Protein

**Product data:** 

**Product Type:** Recombinant Proteins

**Description:** G-CSF (31-204) human recombinant protein, 50 μg

Species: Human
Expression Host: E. coli

**Expression cDNA Clone** 

or AA Sequence:

MTPLGPASSL PQSFLLKCLE QVRKIQGDGA ALQEKLCATY KLCHPEELVL LGHSLGIPWA PLSSCPSQAL QLAGCLSQLH SGLFLYQGLL QALEGISPEL GPTLDTLQLD VADFATTIWQ

QMEELGMAPA LQPTQGAMPA FASAFQRRAG GVLVASHLQS FLEVSYRVLR HLAQP

Predicted MW: 18.8 kDa

**Concentration:** lot specific

**Purity:** >95% by SDS - PAGE

**Buffer:** Presentation State: Purified

State: Liquid purified protein

Buffer System: Phosphate -buffered Saline (PBS), pH 7.4, 10% Glycerol

**Biological:** Measured in a cell proliferation assay using M-NFS-60 mouse myelogenous

leukemia lymphoblast cells. The ED50 for this effect is less than or equal to 0.3 ng/ml.

**Endotoxin:** < 1.0 EU per 1 microgram of protein (determined by LAL method)

**Preparation:** Liquid purified protein

**Protein Description:** Recombinant Human G-CSF was expressed in E.coli and purified by FPLC gel-filtration

chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer.

Storage: Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.

Avoid repeated freezing and thawing.

**Stability:** Shelf life: one year from despatch.

**RefSeq:** NP 000750

**Locus ID:** 1440

UniProt ID: <u>P09919</u>, <u>Q8N4W3</u>

Cytogenetics: 17q21.1

Synonyms: C17orf33; CSF3OS; GCSF





Summary: This gene encodes a member of the IL-6 superfamily of cytokines. The encoded cytokine

controls the production, differentiation, and function of granulocytes. Granulocytes are a type of white blood cell that are part of the innate immune response. A modified form of this protein is commonly administered to manage chemotherapy-induced neutropenia. Alternatively spliced transcript variants have been described for this gene. [provided by

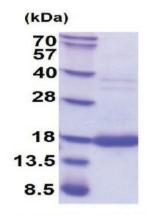
RefSeq, May 2020]

**Protein Families:** Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein

**Protein Pathways:** Cytokine-cytokine receptor interaction, Hematopoietic cell lineage, Jak-STAT signaling

pathway

## **Product images:**



15% SDS-PAGE (3ug)