

AR31104PU-N**Rat G-CSF - Purified**

Alternate names:	C17orf33, CSF3, Colony stimulating factor 3, GCSF, Granulocyte colony-stimulating factor, Pluripoietin
Quantity:	10 µg
Background:	G-CSF is a hematopoietic growth factor that stimulates the development of committed progenitor cells to neutrophils and enhances the functional activities of the mature end-cell. It is produced in response to specific stimulation by a variety of cells including macrophages, fibroblasts, endothelial cells and bone marrow stroma. GCSF is being used clinically to facilitate hematopoietic recovery after bone marrow transplantation.
Uniprot ID:	P97712
NCBI:	NP_058800.1
GenElD:	25610
Species:	Rat
Source:	E. coli
Format:	State: Lyophilized (0.2µ Sterile filtered) purified protein Purity: >98% pure by SDS-PAGE gel and HPLC analyses Buffer System: 10mM Sodium Citrate, pH 4.0 Endotoxin Level: < 0.1 ng/µg of protein (< 1EU/µg) Reconstitution: Restore in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.
Description:	Recombinant Rat G-CSF is a 21.6 kDa protein consisting of 196 amino acid residues. AA Sequence: MKKIPLLTVS SLPPSLPLPR SFLKLSLEQV RKIQARNTTEL LEQLCATYKL CHPEELVLFV HSLGIPKASL SSCSSQALQQÅ TKCLSQLHSG LFLYQGLLQA LAGISSELAP TLDMLHLDVD NFATTIWQQM ESLGVAPTQV PTQSTMPIFT SAFQRRAGGV LVTSYLQSFÅ ETAHHALHHL PRPAQKHFFPE SLFISI Biological Activity: Determined by its ability to stimulate the proliferation of Mouse NFS-60 cells. The expected ED50 is ≤ 0.05 ng/ml, corresponding to a specific activity of ≥ 2 x 10 ⁷ units/mg. Specific Activity: ≥ 2 x 10 ⁷ units/mg. Molecular weight: 21.6 kDa (196 amino acids)
Add. Information:	Centrifuge the vial prior to opening.

Storage:

Prior to reconstitution store at 2-8°C for 6 months, at RT for one month or at -20°C to -80°C for longer.

Following reconstitution store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.