

Granulocyte-Colony Stimulating Factor Rat Recombinant

Item Number	rAP-2161
Synonyms	Granulocyte colony stimulating factor, Protein Csf3, Csf3.
Description	GCSF Rat Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 195 amino acids and having a molecular mass of 21.5kDa. The G-CSF is purified by proprietary chromatographic techniques.
Uniprot Accession Number	P97712
Amino Acid Sequence	KKIPLLTVSS LPPSLPLPRS FLLKSLEQVR KIQARNTPELL EQLCATYKLC HPEELVLFHG SLGIPKASLS SCSSQALQQT KCLSQLHSG LFLYQGLLQAL AGISSELAPT LDMLHLDVDN FATTIWQQME SLGVAPTVQP TQSTMPIF TS AFQRRAGGVL VTSYLQSFLE TAHHALHHLP RPAQKHPES LFISI.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized G-CSF although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution GCSF should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
Formulation and Purity	Lyophilized from a 0.2µm filtered solution in 5mM Sodium Citrate, pH 4.0. Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized GCSF in sterile 18M-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The ED ₅₀ determined by a cell proliferation assay using murine NFS-60 cells is less than 0.05ng/ml, corresponding to a specific activity of > 2.0 × 10 ⁷ IU/mg.
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**