

Granulocyte-Colony Stimulating Factor Human Recombinant, CHO

Item Number	rAP-2145
Synonyms	CSF-3, MGI-1G, GM-CSF beta, Pluripoietin, Filgrastim, Lenograstim, G-CSF, MGC45931, GCSF.
Description	Granulocyte Colony Stimulating Factor Human Recombinant produced in CHO cells is a single, glycosylated, polypeptide chain containing 174 amino acids and having a molecular mass of approximately 18 kDa. G-CSF is purified by proprietary chromatographic techniques.
Uniprot Accesion Number	P09919
Amino Acid Sequence	TPLGPASSLP QSFLKCLEQ VRKIQGDGAA LQEKLCATYK LCHPEELVLL GHSLGIPWAP LSSCP-SQALQ LAGCLSQLHS GLFLYQGLLQ ALEGISPELG PTLDTLQLDV ADFATTIWQQ MEELGMAPAL QPTQGAMPAF ASAFQRRAGG VLVASHLQSF LEVSYRVLRH LAQP.
Source	Chinese Hamster Ovary Cells (CHO).
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized Granulocyte Colony Stimulating Factor although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution G-CSF 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	G-CSF was lyophilized from a concentrated (1mg/ml) Phosphate- Buffered Saline, pH 7.4. 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 Granulocyte Colony Stimulating Factor in sterile 18MΩ-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The ED ₅₀ , calculated by the dose-dependant proliferation of murine NFS-60 indicator cells (measured by 3H-thymidine uptake) is < 0.07 ng/ml, corresponding to a Specific Activity of 1.27 x 10 ⁸ 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**