

Recombinant Human Granulocyte Colony Stimulating Factor (G-CSF)

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Catalog Number:	PHC2034	PHC2035	PHC2031	PHC2033		
Quantity:	5 µg	25 µg	100 µg	1 mg		
Lot Number:	See product label.					
Molecular Weight:	19.0 kDa					
Purity:	>95% as determined by SDS-PAGE analysis.					
Biological Activity:	ED_{50} range = 0.05–0.2 ng/mL, determined by the dose dependent proliferation of mouse NFS–60 cells. Optimal concentration for individual application should be determined by a dose response assay.					
Formulation:	Lyophilized, carrier free.					
Sterility:	Filtered prior to lyophilization through a 0.22 micron sterile filter.					
Endotoxin:	<0.1 ng/µg					
Production:	Recombinant human G–CSF is produced in <i>E. coli</i> and purified via sequential chromatography.					
Reconstitution Recommendation:	We recommend that the vial be briefly centrifuged prior to opening to bring the contents to the bottom. Lyophilized hG–CSF should be reconstituted in sterile deionized water to $0.1-1.0 \text{ mg/mL}$ to regain full activity. These stock solutions should be apportioned into working aliquots and stored at $\leq -20^{\circ}$ C. Further dilutions should be made in low endotoxin medium or buffered solution with FBS or tissue culture grade BSA.					
Suggested Working Dilutions:	The optimal concentration should be determined for each specific application.					
Storage:	Lyophilized Hg–CSF should be stored at 2°C to 8°C, preferably desiccated. Store reconstituted hG-CSF at $\leq -20^{\circ}$ C (not in a frost-free freezer). Keep freeze-thaw cycles to a minimum.					
Expiration Date:	Expires one year from date of receipt when stored as instructed.					
References:	an interleukin 3-depend Souza, L., T.C. Boone, J. Gal effects on normal and I Tian, S., P. Lamb, H. Seidel, granulocyte colony-stir Dong, F., and A.C. Larner (2 evidence for the role of Dong, F., J.S. Gutkind, and 2 which is differentially r	 ein, Y., J.N. Ihle, S. Lavu and E.P. Reddy (1986) Truncation of the c-myb gene by a retroviral integration in interleukin 3-dependent myeloid leukemia cell line. Proc. Nat'l. Acad. Sci. USA. 83:5010–5014. L., T.C. Boone, J. Gabrilove, J. Lai et al. (1986) Recombinant human granulocyte colony-stimulating factor: ects on normal and leukemic myeloid cells. Science 232:61–65. ., P. Lamb, H. Seidel, R. Stein, and J. Rosen (1994) Rapid activation of the STAT3 transcription factor by anulocyte colony-stimulation factor. Blood 84:1760–1764. F., and A.C. Larner (2000) Activation of Akt kinase by granulocyte colony-stimulating factor (G–CSF): idence for the role of a tyrosine kinase activity distinct from the Janus kinases. Blood 95:1656–1652. F. J.S. Gutkind, and A.C. Larner (2001) Granulocyte colony-stimulating factor induces ERK5 activation, hich is differentially regulated by protein-tyrosine kinases and protein kinase C. Regulation of cell oliferation and survival. J. Biol. Chem. 276:10811–10816. 				

Explanation of Symbols

The symbols present on the product label are explained below:

Symbol	Description	Symbol	Description
REF	Catalog Number	LOT	Batch code
RUO	Research Use Only	IVD	In vitro diagnostic medical device
Σ	Use by	X	Temperature limitation
	Manufacturer	EC REP	European Community authorized representative
[-]	Without, does not contain	[+]	With, contains
evente from Light	Protect from light	\triangle	Consult accompanying documents
ĺ	Directs the user to consult instructions for use (IFU), accompanying the product.		

Limited Use Label License: Research Use Only

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