

Granulocyte-Colony Stimulating Factor Mouse Recombinant

Item Number	rAP-2148
Synonyms	CSF3, MGI-1G, GM-CSF beta, Pluripoietin, G-CSF, GCSF.
Description	Granulocyte Colony Stimulating Factor Mouse Recombinant produced in E.coli is a single, non-glycosylated, polypeptide chain containing 178 amino acids and having a molecular mass of approximately 18.9kDa. G-CSF is purified by proprietary chromatographic techniques.
Uniprot Accession Number	P09920
Amino Acid Sequence	VPLVTVSAL PPSLPLPRSF LLKSLEQVRK IQASGSVLE QLCATYKLCH PEELVLLGHS LGIPKASLSG CSSQALQQTQ CLSQLHSGLC LYQGLLQALS GISPALPTL DLLQLDVANF ATTIWQQMEN LGVAPTQVPT QSAMPAFTSA FQRRAGGVLA ISYLQGFLET ARLALHHLA.
Source	Escherichia Coli.
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 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	G-CSF Lyophilized from 10mM NaCitrate, pH 4.0 and 150mM NaCl. Greater than 98.0% 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 H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The ED50 as determined by a cell proliferation assay using murine NFS-60 cells is < 0.05 ng/ml, corresponding to a Specific Activity of 2 x 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**