
Product Data Sheet

Product Name: G CSF Mouse
 Cat. No.: GP20323
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	CSF3; MGI-1G; GM-CSF beta; Pluripoietin; G-CSF; GCSF.		
Amino Acid Sequence	VPLVTVSAL PPSLPLPRSF LLKSLEQVRK IQASGSVLE QLCATYKLCH PEELVLLGHS LGIPKASLSG CSSQALQQTQ CLSQLHSGLC LYQGILLQALS GISPALAPTL DLLQLDVANF ATTIWQQMEN LGVAPTVQPT QSAMPAFTSA FQRRAGGVLA ISYLQGFLET ARLALHHLA.		
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.		
Formulation	G-CSF Lyophilized from 10mM NaCitate, pH 4.0 and 150mM NaCl.		

Introduction

Granulocyte Colony Stimulating Factor is a growth factor and/or cytokine produced by the endothelium, macrophages and a number of other immune cells. GCSF stimulates the bone marrow to produce granulocytes and also to stimulate the survival, proliferation, differentiation and function of neutrophil granulocyte progenitor cells and mature neutrophils.

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 10⁷ IU/mg.

Stability

Lyophilized Granulocyte Colony Stimulating Factor although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution GCSF should

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

Background

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.

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