

G-CSF Murine E. coli

Product Data Sheet

Type: Recombinant	Cat. No.:	
Source: E. coli	RBG20072002	(2 µg)
Species: Murine	RBG20072010	(10 µg)
Other names: Granulocyte Colony-Stimulating Factor, CSF-3, MGI-1G, GM-CSF beta, pluripoietin	RBG20072100	(100 µg)

Description

G-CSF is a hematopoietic growth factor that stimulates the development of committed progenitor cells to neutrophils and enhances the functional activities of the mature end-cell. It is produced in response to specific stimulation by a variety of cells, including macrophages, fibroblasts, endothelial cells and bone marrow stroma. G-CSF is being used clinically to facilitate hematopoietic recovery after bone marrow transplantation. Human and murine G-CSF is cross-species reactive. Recombinant Murine G-CSF is a 19.0 kDa protein consisting of 179 amino acid residues.

Research topic

Cardiovascular disease, Coronary artery disease, Diabetology - Other Relevant Products, Oncology

Amino Acid Sequence

MVPLVTVSAL PPSLPLPRSF LLKSLEQVRK IQASGSVLE QLCATYKLCH PEELVLLGHS LGIPKASLSG CSSQALQQTQ
CLSQLHSGLC LYQGLLQALS GISPALAPTL DLLQLDVANF ATTIWQQMEN LGVAPTVQPT QSAMPAFTSA FQRRAGGVLA
ISYLQGFLET ARLALHHLA

Source

E. coli

Purity

98%

Biological Activity

The ED₅₀ was determined by the dose-dependent stimulation of the proliferation of murine NFS-60 cells is ? 0.05 ng/ml, corresponding to a specific activity of ? 2×10⁷ units/mg.

Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

Storage, Stability/Shelf Life

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