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G CSF Human, PEG

Catalog #:CYPS-025

For research use only.

Description: Granulocyte Colony Stimulating Factor Human Recombinant produced in E.coli is a single, non-glycosylated, polypeptide chain containing 175 amino acids and having a molecular mass of 18.8kDa. The Pegylated G-CSF is produced by attaching a 20kDa methoxypolyethylene glycol propionaldehyde (mPEG-ALD) to the N-terminal amino acid of G-CSF giving a total molecular mass of 38.8kDa. G-CSF is purified by proprietary chromatographic techniques.

Synonyms:CSF-3, MGI-1G, GM-CSF beta, Pluripoietin, Filgrastim, Lenograstim, G-CSF, MGC45931, GCSF.

Source: Escherichia Coli.

Physical Appearance: Colorless, clear and transparent solution.

Purity: Greater than 95.0% as determined by SEC-HPLC.

Formulation:

G-CSF is supplied in solution (0.69mg/ml) containing 10mM Acetate Buffer (pH 4.0), and 0.004% Polysorbate 80.

Stability:

G-CSF PEG should be stored refrigerated at 2

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drμgs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:

GCSF is a cytokine that controls the production, differentiation, and function of granulocytes. The active protein is found extracellularly. Three transcript variants encoding three different isoforms have been found for this gene. Granulocyte/macrophage colony-stimulating factors are cytokines that act in hematopoiesis by controlling the production, differentiation, and function of 2 related white cell populations of the blood, the granulocytes and the monocytes-macrophages. This csf induces granulocytes.

Biological Activity:

The ED50, calculated by the dose-dependent proliferation of murine NFS-60 indicator cells is less than 0.1 ng/ml, corresponding to a Specific Activity of 10,000,000IU/mg.

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