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Datasheet for ABIN7455614

G-CSF Protein

Overview

Quantity:	50 µg
Target:	G-CSF (CSF3)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

Product Details

Purpose:	Recombinant Human Granulocyte Colony-Stimulating Factor is produced by our E.coli expression system and the target gene encoding Thr31-Pro204 is expressed.
Characteristics:	Extracellular Domain Protein
Purity:	Greater than 95 % as determined by reducing SDS-PAGE.

Target Details

Target:	G-CSF (CSF3)
Alternative Name:	G-CSF (CSF3 Products)
Background:	<p>Granulocyte Colony-Stimulating Factor, G-CSF, Pluripoietin, Filgrastim, Lenograstim, CSF3, C17orf33, GCSF</p> <p>Description: Human Granulocyte-Colony-Stimulating Factor (G-CSF) is 20 kD glycoprotein containing internal disulfide bonds. It induces the survival, proliferation, and differentiation of neutrophilic granulocyte precursor cells and it functionally activates mature blood neutrophils. Among the family of colony-stimulating factors, G-CSF is the most potent inducer of terminal differentiation to granulocytes and macrophages of leukemic myeloid cell lines. The synthesis</p>

Target Details

of G-CSF can be induced by bacterial endotoxins, TNF, Interleukin-1, and GM-CSF.

Prostaglandin E2 inhibits the synthesis of G-CSF. In epithelial, endothelial, and fibroblastic cells secretion of G-CSF is induced by Interleukin-17.

Molecular Weight: 18.8 KDa

UniProt: [P09919](#)

Pathways: [Cellular Response to Molecule of Bacterial Origin, Regulation of Actin Filament Polymerization](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Buffer: a 0.2 µm filtered solution of 10 mM HAc-NaAc, 150 mM NaCl, 0.004 % Tween 80, 5 % Mannitol, pH 4.0.

Storage: -20 °C

Storage Comment: Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Expiry Date: 12 months