OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for AR50002PU-N

G-CSF (31-204) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	G-CSF (31-204) human recombinant protein, 0.25 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MTPLGPASSL PQSFLLKCLE QVRKIQGDGA ALQEKLCATY KLCHPEELVL LGHSLGIPWA PLSSCPSQAL QLAGCLSQLH SGLFLYQGLL QALEGISPEL GPTLDTLQLD VADFATTIWQ QMEELGMAPA LQPTQGAMPA FASAFQRRAG GVLVASHLQS FLEVSYRVLR HLAQP
Predicted MW:	18.8 kDa
Concentration:	lot specific
Purity:	>95% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: Phosphate -buffered Saline (PBS), pH 7.4, 10% Glycerol
Bioactivity:	Biological: Measured in a cell proliferation assay using M-NFS-60 mouse myelogenous leukemia lymphoblast cells. The ED50 for this effect is less than or equal to 0.3 ng/ml.
Endotoxin:	< 1.0 EU per 1 microgram of protein (determined by LAL method)
Preparation:	Liquid purified protein
Protein Description:	Recombinant Human G-CSF was expressed in E.coli and purified by FPLC gel-filtration chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer.
Storage:	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_000750
Locus ID:	1440
UniProt ID:	P09919, Q8N4W3
Cytogenetics:	17q21.1
Synonyms:	C17orf33; CSF3OS; GCSF

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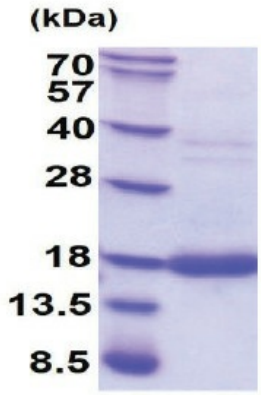
Summary: This gene encodes a member of the IL-6 superfamily of cytokines. The encoded cytokine controls the production, differentiation, and function of granulocytes. Granulocytes are a type of white blood cell that are part of the innate immune response. A modified form of this protein is commonly administered to manage chemotherapy-induced neutropenia. Alternatively spliced transcript variants have been described for this gene. [provided by RefSeq, May 2020]

Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein

Protein Pathways: Cytokine-cytokine receptor interaction, Hematopoietic cell lineage, Jak-STAT signaling pathway

Product images:



15% SDS-PAGE (3ug)