

Datasheet for ABIN6699902

GM-CSF Protein**1** Image[Go to Product page](#)

Overview

Quantity:	5 µg
Target:	GM-CSF (CSF2)
Origin:	Rat
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	SDS-PAGE (SDS)

Product Details

Purpose:	Rat Granulocyte Macrophage-Colony Stimulating Factor Recombinant Protein
Purification:	Granulocyte Macrophage-Colony Stimulating Factor purity was determined to be greater than 97% as determined by UV spectroscopy at 280 nm, Rp-HpLC calibrated against a known standard, and Quantitation against a known standard via reducing and non-reducing SDS-pAGE gels.
Purity:	97,00%
Endotoxin Level:	Measured by LAL is typically ≤ 1 EU/µg protein.
Biological Activity Comment:	The activity is determined by the dose-dependant proliferation of the mouse FDC-P1 cell line and is typically less than 100 pg/mL.

Target Details

Target:	GM-CSF (CSF2)
Alternative Name:	csf2 (CSF2 Products)

Target Details

Background: Synonyms: Colony-stimulating factor (CSF), Pluripoietin- α , MGI1GM

Background: Granulocyte Macrophage Colony Stimulating Factor (GM-CSF) is hematopoietic factor produced by endothelial cells, monocytes, fibroblasts and T cells in response to a number of inflammatory mediators. GM-CSF is able to stimulate the production of neutrophilic granulocytes, macrophages, and mixed granulocyte-macrophage colonies from bone marrow cells. GM-CSF can also stimulate some functional activities in mature granulocytes and macrophages. Human and mouse GM-CSF show no cross-reactivity. Recombinant rat GM-CSF is a non-glycosylated protein, containing 128 amino acids, with a molecular weight of 14.6 kDa.

UniProt: [P48750](#)

Pathways: [JAK-STAT Signaling](#), [Cellular Response to Molecule of Bacterial Origin](#)

Application Details

Application Notes: Other: User Optimized

Application_Note: Granulocyte Macrophage Colony Stimulating Factor Recombinant Protein has been tested by SDS-PAGE and biological activity and is suitable as a control for polyclonal or monoclonal anti-Granulocyte Macrophage Colony Stimulating Factor in immunological assays.

Comment: Suggested_Applications: Cellular Assay

Other_Performance_Data:

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Reconstitution_Buffer: Restore with deionized water (or equivalent)

Reconstitution_Volume: 5 μ L (5-50 μ L)

Buffer: Lyophilized in 20 mM sodium bicarbonate buffer, pH 8.5.

Preservative: Without preservative

Storage: 4 $^{\circ}$ C, -20 $^{\circ}$ C

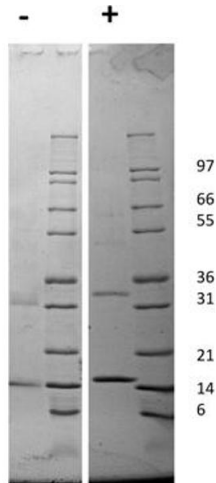
Storage Comment: Store vial at 4 $^{\circ}$ C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL). For best results aliquot contents and freeze at -20 $^{\circ}$ C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each

Handling

opening to dislodge contents from the cap and to clarify if contents are not clear after standing at room temperature.

Expiry Date: 6 months

Images



SDS-PAGE

Image 1. SDS-PAGE of Rat Granulocyte Macrophage-Colony Stimulating Factor Recombinant Protein SDS-PAGE of Rat Granulocyte Macrophage-Colony Stimulating Factor Recombinant Protein. Lane 1: 1 μ g Rat GM-CSF in non-reducing conditions. Lane 2: Molecular weight marker. Lane 3: 1 μ g Rat GM-CSF in reducing conditions (+). Lane 4: Molecular weight marker. Rat GM-CSF has a predicted MW of 14.5 kDa.