Datasheet for ABIN6699896

GM-CSF Protein

1 Image

Go to Product page

Overview

Quantity:	20 µg
Target:	GM-CSF (CSF2)
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	SDS-PAGE (SDS)

Product Details

Purpose:	GM-CSF Mouse Recombinant Protein
Purification:	Purity greater than 95% as determined by analysis by RP-HPLC and reducing and non- reducing SDS-PAGE.
Purity:	95,00%
Endotoxin Level:	Measured by LAL is typically ≤ 1 EU/µg protein.
Biological Activity Comment:	GM-CSF activity is determined by the dose-dependent proliferation of mouse FDCP-1 cell line and is typically less than 10 pg/mL.

Target Details

Target:	GM-CSF (CSF2)
Alternative Name:	Csf2 (CSF2 Products)
Background:	Synonyms: Granulocyte Macrophage Colony Stimulating Factor, Granulocyte Macrophage-CSF, Granulocyte-macrophage colony-stimulating factor, GM-CSF cytokine, Colony-stimulating

Target Details

	factor, CSF, CSF2, Sargramostim, Molgramostin Background: M-GM-CSF is produced in response to a number of inflammatory mediators by mesenchymal cells present in the hemopoietic environment and at peripheral sites of inflammation. GM-CSF is able to stimulate the production of neutrophilic granulocytes, macrophages, and mixed granulocyte-macrophage colonies from bone marrow cells and can stimulate the formation of eosinophil colonies from fetal liver progenitor cells. GM-CSF can also stimulate some functional activities in mature granulocytes and macrophages. GM-CSF receptors shows significant homologies with other receptors for hematopoietic growth factors, including IL2 -beta, IL-3, IL-6, IL-7, EPO and the Prolactin receptors. Recombinant mouse GM-CSF produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 125 amino acids and having a molecular mass of 14,285.35 Daltons.
UniProt:	Q14AD9
Pathways:	JAK-STAT Signaling, Cellular Response to Molecule of Bacterial Origin

Application Details

Application Notes:	Application Note: GM-CSF protein has been tested by SDS-PAGE and is suitable as a control for polyclonal or monoclonal anti-GM-CSF in immunological assays. Lyophilized in 10 mM acetic Acid. Other: User Optimized
Restrictions:	For Research Use only

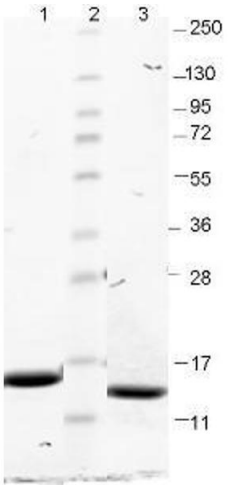
Handling

Format:	Lyophilized
Reconstitution:	Reconstitution_Buffer: Restore with deionized water (or equivalent) Reconstitution_Volume: 20 µL (20-200 µL)
Concentration:	0.2 mg/mL
Buffer:	Lyophilized in 10 mM acetic Acid.
Preservative:	Without preservative
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at 4° 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

Handling

	freeze at -20° C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each 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. GM-CSF Mouse Recombinant Protein - SDS-PAGE. SDS-PAGE using Recombinant Mouse GM-CSF Protein shows bands corresponding to GM-CSF (1µg) in lane 3 (unreduced, arrowhead) and lane 1 (reduced). Molecular weight estimation was made by comparison to prestained MW markers, lane 2.