Datasheet for ABIN7448032

GM-CSF Protein

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Overview

Quantity:	50 µg
Target:	GM-CSF (CSF2)
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant

Product Details

Purpose:	ActiveMax® Mouse GM-CSF Protein, Tag Free
Brand:	ActiveMax®
Sequence:	Ala 18 - Lys 141
Characteristics:	ActiveMax® Mouse GM-CSF, Tag Free is expressed from human 293 cells (HEK293). It contains AA Ala 18 - Lys 141 (Accession # P01587). ActiveMax® cytokines are a series of highly active recombinant cytokines developed on the HEK293 cells expression technology platform for immune cells, stem cells, and other cell cultures. • Tag free • Carrier free • High purity > 95 % • High bioactivity verified by cell-based assay • Xenologous animal components free • Native conformation and modification • Low endotoxin≤1.0 EU/µg • High batch-to-batch consistency

Product Details

Purity:	90,00 %
Endotoxin Level:	0.1 EU per µg

Target Details

Target:	GM-CSF (CSF2)
Alternative Name:	GM-CSF (CSF2 Products)
Background:	Synonyms:GM-CSF,CSF2,MGC131935,Description:Granulocyte-macrophage colony-stimulating factor (GM-CSF) is also known as Colony stimulating factor 2 (granulocyte-macrophage), is a cytokine initially characterized by its ability to induce colonies of granulocytes and macrophages from myeloid progenitor cells, and is secreted by macrophages, T cells, mast cells, endothelial cells and fibroblasts. GM-CSF is a cytokine that functions as a white blood cell growth factor. GM-CSF stimulates stem cells to produce granulocytes (neutrophils, eosinophils, and basophils) and monocytes. Monocytes exitthe circulation and migrate into tissue, whereupon they mature into macrophages and dendritic cells. Thus, it is part of the immune/inflammatory cascade, by which activation of a small number of macrophages can rapidly lead to an increase in their numbers, a process crucial for fighting infection. The active form of the protein is found extracellularly as a homodimer. Human GM-CSF glycosylated in its mature form. As a part of the immune/inflammatory cascade, GM-CSF promotes Th1 biased immune response, angiogenesis, allergic inflammation, and the development of autoimmunity, and thus worthy of consideration for therapeutic target. GM-CSF has also recently been evaluated in clinical trials for its potential as a vaccine adjuvant in HIV-infected patients. The preliminary results have been promising. GM-CSF is also used as a medication to stimulate the production of white blood cells following chemotherapy.
Molecular Weight:	14.1 kDa
Pathways:	JAK-STAT Signaling, Cellular Response to Molecule of Bacterial Origin

Application Details

Comment:	This protein carries no "tag". The protein has a calculated MW of 14.1 kDa. The protein migrates as 17-23 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	PBS, pH 7.4
Storage:	-20 °C
Storage Comment:	-20°C

