

Datasheet for ABIN6239729

GM-CSF Protein (AA 18-144) (His tag)**2** Images[Go to Product page](#)

Overview

Quantity:	50 µg
Target:	GM-CSF (CSF2)
Protein Characteristics:	AA 18-144
Origin:	Human
Source:	HEK-293 Cells
Biological Activity:	Active
Purification tag / Conjugate:	This GM-CSF protein is labelled with His tag.
Application:	Cell Culture (CC), Activity Assay (AcA)

Product Details

Characteristics:	Tag location: N-terminal His Tag
Purity:	> 95 %
Biological Activity Comment:	TF-1, the human erythroleukemia cell line, provides a good system for detecting the activity of GM-CSF for it is a cell line of immature erythroid origin that completely depends on interleukin 3 (IL-3) or granulocyte-macrophage colony-stimulating factor (GM-CSF) for long term growth. As reported, GM-CSF was also able to induce differentiation of human monoblastic leukemia cell line U937. In house data was obtained by the following experiment: TF-1 cells and U937 cells were incubated in the presence of various concentrations of rhGM-CSF, then cells were observed by inverted microscope everyday. Cell proliferation of TF1 cells after incubation with GM-CSF (10ng/mL) for 3 days was shown in Figure 1.

Target Details

Target:	GM-CSF (CSF2)
Alternative Name:	Colony Stimulating Factor 2, Granulocyte Macrophage (GMCSF) (CSF2 Products)
Background:	Alternative Names: CSF2, GM-CSF, Sargramostim, Molgramostin, Granulocyte-Macrophage Colony Stimulating Factor
Molecular Weight:	19-26kDa
UniProt:	P04141
Pathways:	JAK-STAT Signaling , Cellular Response to Molecule of Bacterial Origin

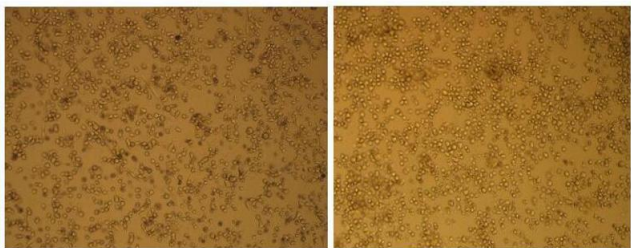
Application Details

Application Notes:	Isoelectric Point: 5.2
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	20 mM Tris, 150 mM NaCl, pH 8.0, containing 1 mM EDTA, 1 mM DTT, 0.01 % SKL, 5 % Trehalose and Proclin300.
Preservative:	Dithiothreitol (DTT), Other preservative, ProClin
Precaution of Use:	This product contains ProClin and Dithiothreitol (DTT): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.

Images



A

B

Figure 2. Effect of GM-CSF on U937 cells.

(A) U937 cells cultured in RPMI 1640, stimulated with GM-CSF (10ng/mL);

(B) Unstimulated U937 cells cultured in RPMI 1640.

Image 1. Cell differentiation of U937 cells after incubation with GM-CSF (10ng/mL) for 5 days was shown in Figure 2.

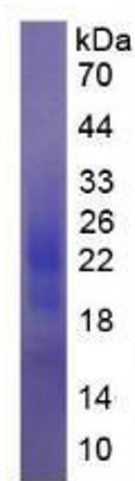


Image 2.