

Colony Stimulating Factor 2, Granulocyte Macrophage (GMCSF) Active Protein | GMCSF active protein

Active Colony Stimulating Factor 2, Granulocyte Macrophage (GMCSF)

CATALOG # AAA146598	HOST 293F cell	APPLICATIONS Activity Assay, Cell Culture
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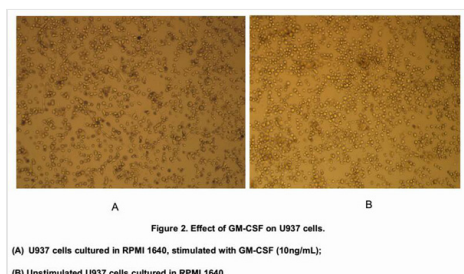
PRODUCT SYNONYMS

Colony Stimulating Factor 2; Granulocyte Macrophage (GMCSF); Active Colony Stimulating Factor 2; CSF2; GM-CSF; Sargramostim; Molgramostin; Granulocyte-Macrophage Colony Stimulating Factor; GMCSF active protein

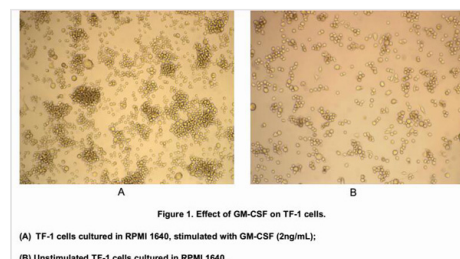
PRODUCT SPECIFICATIONS

Host	293F cell
Purity/Purification	> 95%
Form/Format	Freeze-dried powder
Sequence Length	144
Applicable Applications for GMCSF active protein	Activity Assay, Cell Culture
Fragment	Ala18~Glu144
Tag	N-terminal His Tag
Buffer Formulation	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Organism Species	Human
Isoelectric Point	5.2
Usage	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

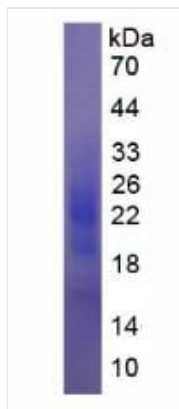
IMAGES



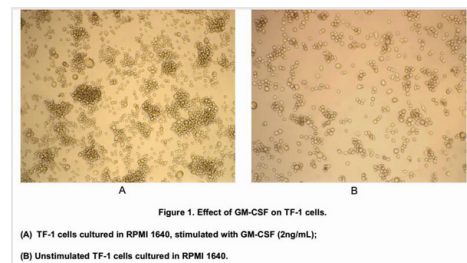
Application Data



Application Data



SDS-PAGE



Activity

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.

ADDITIONAL INFORMATION

Product Categories/Family for GMCSF active protein	Active Protein
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NCBI AND UNIPROT INFORMATION

NCBI GI #	27437030
NCBI GeneID	1437
NCBI Accession #	NP_000749.2
NCBI GenBank Nucleotide #	NM_000758.3
UniProt Accession #	P04141; Q14CE8; Q2VPI8; Q8NFI6
Molecular Weight	16.1kDa; 19-26kDa
NCBI Official Full Name	granulocyte-macrophage colony-stimulating factor
NCBI Official Synonym Full Names	colony stimulating factor 2
NCBI Official Symbol	CSF2
NCBI Official Synonym Symbols	GMCSF
NCBI Protein Information	granulocyte-macrophage colony-stimulating factor
UniProt Protein Name	Granulocyte-macrophage colony-stimulating factor
UniProt Gene Name	CSF2
UniProt Synonym Gene Names	GMCSF; GM-CSF; CSF

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/293f-cell-active-protein/colony-stimulating-factor-2-granulocyte-macrophage-gmcsf/146598>