

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

Active Colony Stimulating Factor 2, Granulocyte Macrophage (GMCSF)

CATALOG # AAA146599	HOST E Coli	APPLICATIONS Activity Assay, Cell Culture
-------------------------------	-----------------------	---

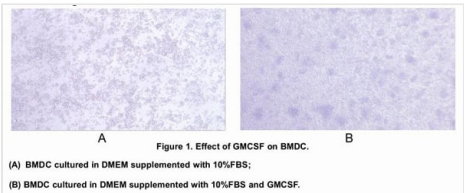
PRODUCT SYNONYMS

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

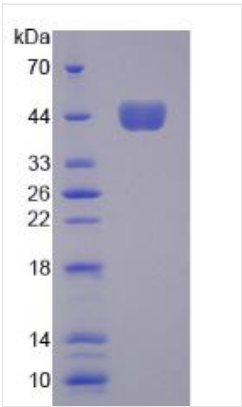
PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 90%
Form/Format	Freeze-dried powder
Sequence Length	141
Applicable Applications for GMCSF active protein	Activity Assay, Cell Culture
Fragment	Pro19~Lys141
Tag	N-terminal His and GST Tag
Buffer Formulation	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Organism Species	Mouse
Isoelectric Point	5.9
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.

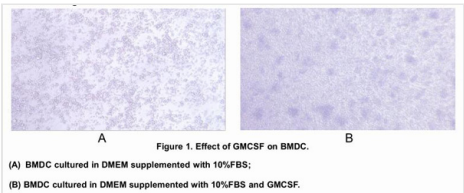
IMAGES



Application Data



SDS-PAGE



Activity

Measured in a cell proliferation assay using mouse BMDC (bone marrow derived dendritic cells). The ED50 (median effective dose) for this effect is less than 0.25 ng/mL. In-house data of APA045Mu01 used in cellular experiment: Six-eight weeks old Balb/c mice were used for BMDC. At first, mouse femur and tibia were taken out, and then bone marrow was washed out with serum-free RPMI 1640 medium, followed by centrifugation at 1200RPM for 5min (4oC). ACK buffer was added to get rid of red blood cells, and then, centrifuged at 1200RPM for 5min (4oC). Cell pellets were collected and re-suspended, the cells were cultured in DMEM medium supplemented with 10% FBS, or DMEM medium supplemented with 10% FBS and GMCSF (APA045Mu01) at 37oC with 5% CO2 in thermostatic incubator. Three days later, cells were observed by microscope, and the result is shown in Figure 1.

ADDITIONAL INFORMATION

Product Categories/Family for GMCSF active protein	Active Protein
--	----------------

NCBI AND UNIPROT INFORMATION

NCBI GI #	110625658
NCBI GeneID	12981
NCBI Accession #	NP_034099.2
NCBI GenBank Nucleotide #	NM_009969.4
UniProt Accession #	P01587
Molecular Weight	44.0kDa; 44kDa
NCBI Official Full Name	granulocyte-macrophage colony-stimulating factor
NCBI Official Synonym Full Names	colony stimulating factor 2 (granulocyte-macrophage)
NCBI Official Symbol	Csf2
NCBI Official Synonym Symbols	Csfgm; GMCSF; Gm-CSF; MGI-IGM
NCBI Protein Information	granulocyte-macrophage colony-stimulating factor
UniProt Protein Name	Granulocyte-macrophage colony-stimulating factor

UniProt Gene Name	Csf2
UniProt Synonym Gene Names	Csfgm; 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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/colony-stimulating-factor-2-granulocyte-macrophage-gmcsf/146599>