

GM-CSF active protein

Recombinant Porcine GM-CSF protein

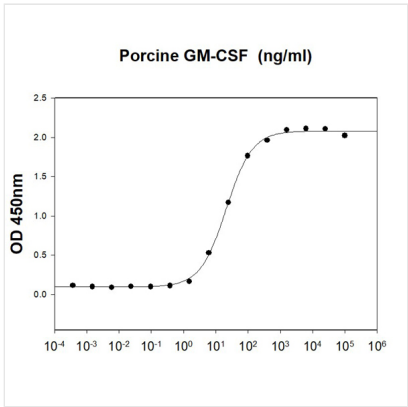
CATALOG # AAA48356	HOST E Coli	APPLICATIONS SDS-Page
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PRODUCT SYNONYMS

GM-CSF; Recombinant Porcine GM-CSF protein; Colony stimulating factor; Colony Stimulating Factor 2; Colony stimulating factor 2 (granulocyte-macrophage); Colony-stimulating factor; CSF; CSF 2; CSF2; CSF2_HUMAN; GMCSF; GM-CSF active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 95% by SDS - PAGE
Form/Format	Liquid. In Phosphate-Buffered Saline (pH7.4)
Concentration	0.5mg/ml (determined by absorbance at 280nm) (varies by lot)
Sequence Positions	18-144aa
Sequence	APTRPPSPVT RPWQHVDIAIK EALSLNNSN DTAAVMNETV DVVCEMFDPQ EPTCVQTRLN LYKQGLRGSL TRLKSPLTLL AKHYEQHCPL TEETSCETQS ITFKSFKDSL NKFLFTIPFD CWGPVKK
Sequence Length	144
Applicable Applications for GM-CSF active protein	Bioactivity, SDS-PAGE
Antigen Species	Porcine
Endotoxin	< 1 EU per 1ug of protein (determined by LAL method)
Tag Information	His-Tag
Biological Activity	Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED50 range ? 40 ng/ml.
Preparation and Storage	Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

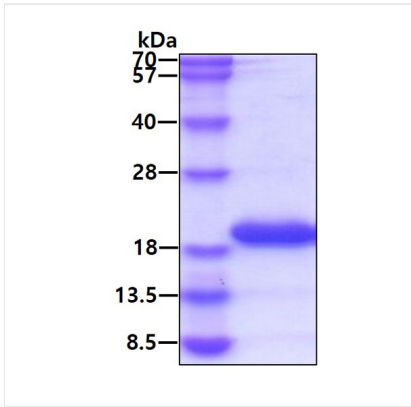


Bioactivity

Porcine GM-CSF stimulates cell proliferation of the TF-1 human erythroleukemic cells. The ED50 range ? 40 ng/ml.

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SDS-Page



ADDITIONAL INFORMATION

Related Product Information for GM-CSF active protein	GM-CSF, also known as granulocyte macrophage colony-stimulating factor, is a hematopoietic growth factor that stimulates the development of neutrophils and macrophages and promotes the proliferation and development of early erythroid megakaryocytic and eosinophilic progenitor cells. It is produced in by endothelial cells, monocytes, fibroblasts and T-lymphocytes. GM-CSF inhibits neutrophil migration and enhances the functional activity of the mature end-cells. Recombinant porcine GM-CSF was expressed in E. coli and purified by conventional chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer.
Product Categories/Family for GM-CSF active protein	Growth factors
References	Trapnell BC, et al. (2002) Annu Rev Physiol. 64, 775-80. Wong GG, et al (1985) Science, 228, 810-815.

NCBI AND UNIPROT INFORMATION

NCBI GI #	47523044
NCBI GeneID	397208
NCBI Accession #	NP_999283
NCBI GenBank Nucleotide #	NP_999283.1
UniProt Accession #	Q29118
Molecular Weight	16.6 kDa (148aa), confirmed by MALDI-TOF
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	GM-CSF
NCBI Protein Information	granulocyte-macrophage colony-stimulating factor
UniProt Protein Name	Granulocyte-macrophage colony-stimulating factor
UniProt Gene Name	CSF2
UniProt Synonym Gene Names	GM-CSF; CSF
UniProt Entry Name	CSF2_PIG

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://www.aaabiotech.com/e-coli-active-protein/gm-csf/48356>