

Recombinant Porcine GM-CSF protein

Catalog Number: ATGP3935

PRODUCT INFORMATION

Expression system

E.coli

Domain

18-144aa

UniProt No.

Q29118

NCBI Accession No.

NP_999283

Alternative Names

Colony stimulating factor, Colony Stimulating Factor 2, Colony stimulating factor 2 (granulocyte-macrophage), Colony-stimulating factor, CSF, CSF 2, CSF2, CSF2_HUMAN, GM-CSF, GMCSF

PRODUCT SPECIFICATION

Molecular Weight

16.6 kDa (148aa), confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by absorbance at 280nm)

Formulation

Liquid. In Phosphate-Buffered Saline (pH7.4)

Purity

> 95% by SDS - PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Biological Activity

Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED50 range $\leq$ 40 ng/ml.

Tag

His-Tag

Application

SDS-PAGE, Bioactivity

Storage Condition

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.

BACKGROUND

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Description

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.

Amino acid Sequence

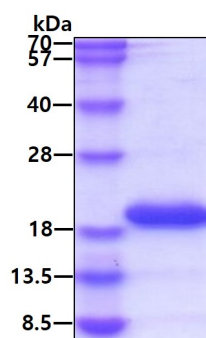
<MGSSHHHHHH SGLVPRGSH M>APTRPPSPV TRPWQHVD AI KEALSLNNS NDTAAVMNET VDVVCEMFDP
QEPTCVQTRL NLYKQGLRGS LTRLKSPLTL LAKHYEQHCP LTEETSCETQ SITFKSFKDS LNKFLTIPF DCWGPVKK

General References

Trapnell BC, et al. (2002) Annu Rev Physiol. 64, 775-80. Wong GG, et al (1985) Science, 228, 810-815.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

Biological Activity

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

