Datasheet for ABIN7596239

GM-CSF Protein (AA 18-144) (His tag)

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Overview

Quantity:	500 µg
Target:	GM-CSF (CSF2)
Protein Characteristics:	AA 18-144
Origin:	Pig
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This GM-CSF protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Activity Assay (AcA)

Product Details

Sequence:	APTRPPSPV TRPWQHVDAI KEALSLLNNS NDTAAVMNET VDVVCEMFDP QEPTCVQTRL NLYKQGLRGS LTRLKSPLTL LAKHYEQHCP LTEETSCETQ SITFKSFKDS LNKFLFTIPF DCWGPVKK
Purity:	> 95% by SDS - PAGE
Endotoxin Level:	< 1 EU per 1ug of protein (determined by LAL method)
Biological Activity Comment:	Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED50 range ≤ 40 ng/ml.

Target Details

Target:	GM-CSF (CSF2)

Target Details

Alternative Name:	GM-CSF (CSF2 Products)
Background:	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.
Molecular Weight:	16.6 kDa (148aa), confirmed by MALDI-TOF
NCBI Accession:	NP_999283
Pathways:	JAK-STAT Signaling, Cellular Response to Molecule of Bacterial Origin

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.5 mg/mL
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Can be stored at +2°C to +8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.