

Recombinant Canine Granulocyte-Macrophage Colony Stimulating Factor



Catalog No: #AP60220

Orders: order@signalwayantibody.com

Package Size: #AP60220-1 5ug #AP60220-2 100ug #AP60220-3 500ug

Support: tech@signalwayantibody.com

Description

Product Name	Recombinant Canine Granulocyte-Macrophage Colony Stimulating Factor
Host Species	Escherichia coli.
Purification	> 95 % by SDS-PAGE and HPLC analyses.
Other Names	Granulocyte/Macrophage Colony-Stimulating Factor, CSF-2, MGI-1GM, Pluripoietin- α
Uniprot	P48749
GeneID	403923
Calculated MW	Approximately 14.2 kDa, a single non-glycosylated polypeptide chain containing 127 amino acids.
Target Sequence	APTRSPTLVTRPSQHVDAIQ EALSLNNSN DVTAVMNKAV KVVSEVFDPE GPTCLETRLQ LYKEGLQGSL TSLKNPLTMM ANHYKQHCPP TPESPCATQN INFKSFKENL KDFLFNIPFD CWKPVKK
Formulation	Lyophilized from a 0.2 μ m filtered concentrated solution in PBS, pH 7.4.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.- 12 months from date of receipt, -20 to -70 $^{\circ}$ C as supplied.- 1 month, 2 to 8 $^{\circ}$ C under sterile conditions after reconstitution.- 3 months, -20 to -70 $^{\circ}$ C under sterile conditions after reconstitution.

Background

Granulocyte-Macrophage Colony Stimulating Factor (GM-CSF) is secreted by a number of different cell types (including activated T cells, B cells, macrophages, mast cells, endothelial cells and fibroblasts) in response to cytokine or immune and inflammatory stimulation. It was initially characterized as a growth factor that can support the in vitro colony formation of granulocyte-macrophage progenitors and has functions of stimulates the growth and differentiation of hematopoietic precursor cells from various lineages. GM-CSF has also been reported to have a functional role on non-hematopoietic cells and can induce human endothelial cells to migrate and proliferate. Additionally, it can stimulate the proliferation of a number of tumor cell lines, including osteogenic sarcoma, carcinoma and adenocarcinoma cell lines. It is reported that GM-CSF has no biological effects across species.

Note: This product is for in vitro research use only