

CSF₂

Recombinant Canine Granulocyte-Macrophage Colony Stimulating Factor

Catalog No. CS497A **Quantity**: 5 μg

CS497B 20 µg CS497C 1 mg

Alternate Names: Colony stimulating factor 2 (granulocyte-macrophage)

Description: Recombinant Canine Granulocyte-Macrophage Colony Stimulating Factor (GM-CSF)

was initially characterized as a growth factor that can support the *in vitro* colony formation of granulocyte-macrophage progenitors. It is produced 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 stimuli. Besides granulocyte-macrophage progenitors, GM-CSF is also a growth factor for erythroid, megakaryocyte and eosinophil progenitors. On mature hematopoietic cells, GM-CSF is a

survival factor for and activates the effector functions of granulocytes,

monocytes/macrophages and eosinophils.

Recombinant Canine GM-CSF is a single non-glycosylated polypeptide chain containing

127 amino acids.

 Gene ID:
 403923

 Source:
 E. coli

 Molecular Weight:
 14.2 kDa

Formulation: Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.

Purity: >95% by SDS-PAGE and HPLC analyses.Endotoxin Level: <1 EU/μg as determined by LAL method.

Biological Activity: Fully biologically active when compared to standard. The ED₅₀ determined by a cell

proliferation assay using human TF-1 cells is less than 4 ng/ml.

Specific Activity: $\geq 2.5 \times 10^5 \text{ IU/mg.}$

Amino Acid Sequence: APTRSPTLVT RPSQHVDAIQ EALSLLNNSN DVTAVMNKAV KVVSEVFDPE

GPTCLETRLQ LYKEGLQGSL TSLKNPLTMM ANHYKQHCPP TPESPCATQN

NFKSFKENL KDFLFNIPFD CWKPVKK

Reconstitution: Centrifuge vial prior to opening. Add sterile distilled water or aqueous buffer

containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml. This depends upon the

particular application employed. Further dilutions should be made in appropriate buffered

solutions.

Storage & Stability: This lyophilized preparation is stable at 2-8°C, but should be kept desiccated at -20°C for

long term storage. Upon reconstitution, the preparation is stable for up to one week at 2 -8°C. For maximal stability, apportion the reconstituted preparation into working aliquots

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and store at -20°C to -80°C. Avoid repeated freeze/thaw cycles.

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