

Active Recombinant Canine CSF2 Protein

Cat. No. CSF2-43C Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Canine CSF2 Protein without tag was expressed in E. coli.
Species	Canine
Source	E.coli
Description	Granulocyte-macrophage colony-stimulating factor (GM-CSF) is a hematopoietic growth factor produced by endothelial cells, monocytes, fibroblasts, and T cells, GM-CSF stimulates the production of neutrophilic granulocytes, macrophages, and mixed granulocyte-macrophage colonies from bone marrow cells, GM-CSF promotes immune system development and regulates neutrophil function during infection.
Bio-activity	TF-1 cell proliferation, ED50 \leq 15 ng/mL
Molecular Mass	Monomer, 14.4 kDa (with 128 amino acids)
AA Sequence	MAPTRSPTLVTRPSQHVDIAIQEALSLNNSNDVTAVMKNKAVKVVSEVFDPEGPTCLE TRLQLYKEGLQGSLTSLKNPLTMMANHYKQHCPPTPESPCATQNINFKSFKENLKDF LFNIPFDCWKPVKK
Endotoxin	\leq 1 EUs/ μ g, Kinetic LAL (50% confidence)
Purity	\geq 95%, Reducing and Non-Reducing SDS PAGE
Stability	12 months from date of receipt when stored at -20 to -80 centigrade as supplied.

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1 month when stored at 4 centigrade after reconstituting as directed.
 3 months when stored at -20 to -80 centigrade after reconstituting as directed.

Storage Storage Prior to Reconstitution: -20, centigrade

Storage Buffer Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, pH 7.5

Reconstitution Sterile water at 0.1 mg/mL

Shipping Room temperature

Instructions Centrifuge vial before opening. Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80 centigrade and avoid repeat freeze thaws.

GENE INFORMATION

Gene Name CSF2 colony stimulating factor 2 (granulocyte-macrophage) [*Canis lupus familiaris* (dog)]

Official Symbol CSF2

Synonyms CSF2; colony stimulating factor 2 (granulocyte-macrophage); granulocyte-macrophage colony-stimulating factor; CSF; colony-stimulating factor; GM-CSF;

Gene ID 403923

mRNA Refseq NM_001003245

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