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≤15 ng/mL
Molecular Mass	Monomer, 14.4 kDa (with 128 amino acids)
AA Sequence	MAPTRSPTLVTRPSQHVDAIQEALSLLNNSNDVTAVMNKAVKVVSEVFDPEGPTCLE TRLQLYKEGLQGSLTSLKNPLTMMANHYKQHCPPTPESPCATQNINFKSFKENLKDF LFNIPFDCWKPVKK
Endotoxin	≤1 EUs/μg, Kinetic LAL (50% confidence)
Purity	≥95%, Reducing and Non-Reducing SDS PAGE
Stability	12 months from date of receipt when stored at -20 to -80 centigrade as supplied.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	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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Protein Refseq	NP_001003245
UniProt ID	P48749

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