

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

Product Information

Product Name	Cat#	Size
Recombinant Canine Granulocyte-Macrophage Colony Stimulating Factor (Canine GM-CSF)	91110ES08	5 µg
	91110ES60	100 µg
	91110ES76	500 µg

Product Description

GM-CSF 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 endothelial cells, monocytes, fibroblasts and T-lymphocytes. GM-CSF inhibits neutrophil migration and enhances the functional activity of the mature end-cells. The human and murine molecules are species-specific and exhibit no cross-species reactivity. Recombinant Canine GM-CSF is a 14.5 kDa globular protein consisting of 127 amino acids, containing two intramolecular disulfide bonds and two potential N-linked glycosylation sites.

Product Properties

Synonyms	Granulocyte/Macrophage Colony-Stimulating Factor, CSF-2, MGI-1GM, Pluripoietin- α
Accession	P48749
GeneID	403923
Source	E.coli-derived Canine GM-CSF protein,Ala18-Glu144.
Molecular Weight	Approximately 14.5 kDa.
AA Sequence	APTRSPTLVT RPSQHVDAIQ EALSLLNNSN DVTAVMNKAV KVVSEVFDPE GPTCLETRLQ LYKEGLQGSL TSLKNPLTMM ANHYKQHCPP TPESPCATQN INFKSFKENL KDFLFNIPFD CWKPVKK
Tag	None
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	> 95% by SDS-PAGE and HPLC analyses.
Biological Activity	Fully biologically active when compared to standard. The ED ₅₀ as determined by a cell proliferation assay using human TF-1 cells is less than 5 ng/mL, corresponding to a specific activity of > 2.0 × 10 ⁵ IU/mg.
Endotoxin	< 1 EU/µg of protein as determined by LAL method.
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4. We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom.
Reconstitution	Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.

Shipping and Storage

The products are shipped with ice pack and can be stored at -20°C to -80°C for 1 year.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

Cautions

1. Avoid repeated freeze-thaw cycles.
2. For your safety and health, please wear lab coats and disposable gloves for operation.
3. For research use only.