

GM-CSF Protein, Canine

Cat. No.:	HY-P79087
Synonyms:	colony stimulating factor 2; CSF2; Granulocyte Macrophage Growth Factor
Species:	Canine
Source:	E. coli
Accession:	P48749-1 (A18-K144)
Gene ID:	403923
Molecular Weight:	Approximately 15.11 kDa

PROPERTIES

AA Sequence	<p>A P T R S P T L V T R P S Q H V D A I Q E A L S L L N N S N D V T A V M N K A V</p> <p>K V V S E V F D P E G P T C L E T R L Q L Y K E G L Q G S L T S L K N P L T M M</p> <p>A N H Y K Q H C P P T P E S P C A T Q N I N F K S F K E N L K D F L F N I P F D</p> <p>C W K P V K K</p>
Biological Activity	Measured in a cell proliferation assay using TF α 1 human erythroleukemic cells. The ED ₅₀ for this effect is 7.016 ng/ml, corresponding to a specific activity is 1.42 \times 10 ⁵ units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μ m filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	CSF2 protein, also known as GM-CSF, plays a crucial role in stimulating the growth and differentiation of hematopoietic precursor cells from different lineages, such as granulocytes, macrophages, eosinophils, and erythrocytes. It operates as a monomer and forms a signaling complex with the GM-CSF receptor. This receptor complex consists of two alpha, two beta, and two ligand subunits arranged in a dodecamer structure, with two head-to-head hexamers.
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Caution: Product has not been fully validated for medical applications. For research use only.

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