

Granulocyte Macrophage-Colony Stimulating Factor Canine Recombi-

Item Number	rAP-2156
Synonyms	CSF-2, MGI-1GM, GM-CSF, Pluripoietin-alpha, MGC131935, MGC138897.
Description	GMCSF k9 Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 128 amino acids and having a molecular mass of 14.2 kDa. GM-CSF is purified by proprietary chromatographic techniques.
Uniprot Accesion Number	P48749
Amino Acid Sequence	APTRSPTLVT RPSQHVDIAIQ EALSLNNSN DVTAVMNKAV KVVSEVFDPEGPTCLETRLQ LYKEGLQGSL TSLKNPLTMM ANHYKQHCPP TPESPCATQNINFKSFKENL KDFLFNIPFD CWKPVKK.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized GMCSF although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution GMCSF should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.
Formulation and Purity	GMCSF was lyophilized after extensive dialysis against 1xPBS pH 7.4. Greater than 96.0% as determined by 1. Analysis by RP-HPLC.2. Analysis by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized GMCSF in sterile 18M ² -cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The ED ₅₀ as calculated by the dose-dependent stimulation of the proliferation of human TF1 erythroleukemic cells is typically 1-4 ng/ml.
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**