

Product Data Sheet

Recombinant Mouse GM-CSF (carrier-free)

Catalog # / Size:	576302 / 10 µg 576304 / 25 µg 576306 / 100 µg 576308 / 500 µg	1.8 Ē 1.6-	
Source:	Mouse GM-CSF, amino acids Ala18-Lys141 (Accession # NM_009969) was expressed in <i>E. coli.</i>	(III 1.6- 06) 1.4- 0 1.2-	
Molecular Mass:	The 125 amino acid N-terminal methionylated recombinant protein has a predicted molecular mass of 14.2 kDa. The DTT-reduced protein migrates at approximately 13 kDa and the non-reduced protein migrates at approximately 11kDa by SDS-PAGE.	0.000001 0.0001 0.01 1 100 ng/ml	
Purity:	Purity is >98%, as determined by Coomassie stained SDS-PAGE.	FDC-P1 cell proliferation induced by	
Endotoxin Level:	Endotoxin level is <0.1 EU/ μ g (<0.01ng/ μ g) protein as determined by the LAL method.	mouse GM-CSF.	
Activity:	The ED ₅₀ is <0.05 ng/ml, corresponding to a specific activity >2x10 ⁷ units/mg.		
Preparation:	10-100µg sizes are bottled at 200µg/ml. 500µg and larger sizes are bottled at the concentration indicated on the vial.		
Formulation:	0.22 μm filtered protein solution is in 10mM NaH ₂ PO ₄ , 150mM NaCl, pH 7.2.		
Storage:	Unopened vial can be stored at 4°C for three months, at -20°C for six months, or at -70°C for one year. For maximum results, quick spin vial prior to opening. Stock solutions should be prepared at no less than 10µg/mL in buffer containing carrier protein such as 1% BSA or HSA or 10% FBS. For long term storage, aliquot into polypropylene vials and store in a manual defrost freezer. Avoid repeated freeze/thaw cycles .		
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Applications:

Applications: Bioassay Recommended Usage: Use when high specific biological activity is required. Application Notes: The protein showed bioactivity when tested on MC/9 cells in proliferation assay. Please contact Technical Service for details. **Application References:** 1. Ahn J, et al. 2012. PNAS. 109:19386. PubMed 2. Verhagen J, et al. 2012. PNAS. 110:E221. PubMed Description: GM-CSF is a hematopoietic factor that is produced by T cells, macrophages, fibroblasts and endothelial cells. This multifunctional cytokine stimulates progenitor cells of neutrophils, eosinophils and macrophages. GM-CSF is also a differentiation and activating factor for granulocytic and monocytic cells. Antigen References: 1. Fitzgerald K, et al. Eds. 2001. The Cytokine FactsBook. Academic Press San Diego. 2. Demetri G, *et al.* 1991. *Blood* 78:2791. 3. Fan D, *et al.* 1991. *In vivo* 5:571.

- 4. Negrin R, et al. 1992. Adv. Pharmacol. 23:263.



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