

Certificate of Analysis

GM-CSF Protein, Human (Tag Free)

 Cat. No.:
 HY-P78868

 Batch No.:
 316604

 Species:
 Human

 Source:
 HEK293

 Tag:
 Tag Free

Accession: P04141 (A18-E144)

Gene ID: 1437 Molecular Weight: 19-29 kDa

ANALYTICAL DATA

TEST	Specifications	Results
Purity	Greater than 95% as determined by reducing SDS-PAGE.	≥98.0%
Endotoxin Level	<1 EU/µg, determined by LAL method.	PASS
Biological Activity	Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED ₅₀ for this effect is \leq 1.731 ng/mL, corresponding to a specific activity is \geq 5.777×10 ⁵ units/mg.	0.13 ng/mL
Appearance	Lyophilized powder	
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.	

 ${\bf Caution: Product\ has\ not\ been\ fully\ validated\ for\ medical\ applications.\ For\ research\ use\ only.}$

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