



# Certificate of Analysis

## GM-CSF Protein, Human (HEK293, His)

**Cat. No.:** HY-P70567  
**Batch No.:** 106940  
**Species:** Human  
**Source:** HEK293  
**Tag:** C-6\*His  
**Accession:** P04141 (A18-E144)  
**Gene ID:** 1437  
**Molecular Weight:** 17-30 kDa

### ANALYTICAL DATA

TEST	Specifications	Results
Purity	Greater than 95% as determined by reducing SDS-PAGE	≥95.0%
Endotoxin Level	<1 EU/μg, determined by LAL method.	PASS
Biological Activity	The cell proliferation assay using TF-1 human erythroleukemic cells has an ED <sub>50</sub> value of 6-30 pg/mL.	8.50 pg/mL
Appearance	Lyophilized powder.	
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> 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. It is recommended to freeze aliquots at -20°C or -80°C for extended storage.	
Shipping	Room temperature in continental US; may vary elsewhere.	

**Caution: Product has not been fully validated for medical applications. For research use only.**

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