



# Certificate of Analysis

## GM-CSF Protein, Mouse (His)

Cat. No.: HY-P7361A  
 Batch No.: 235931  
 Species: Mouse  
 Source: *E. coli*  
 Tag: N-6\*His  
 Accession: Q14AD9 (A18-K141)  
 Gene ID: 12981  
 Molecular Weight: Approximately 17 kDa

### ANALYTICAL DATA

TEST	Specifications	Results
Purity	Greater than 90% as determined by reducing SDS-PAGE	95.00%
Endotoxin Level	<1 EU/μg, determined by LAL method.	PASS
Biological Activity	Measured in a cell proliferation assay using THP-1 human erythroleukemic cells. The ED <sub>50</sub> for this effect is 9.304-24.86 pg/mL, corresponding to a specific activity is 4.023×10 <sup>7</sup> -1.075×10 <sup>8</sup> units/mg.	15.84 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 (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.	

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

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