



# Certificate of Analysis

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

Cat. No.:	HY-P70567G
Batch No.:	154790
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	<0.05 EU/μg, determined by LAL method.	PASS
Biological Activity	The specific activity is >2×10 <sup>7</sup> IU/mg.	5.89 E7 IU/mg
pH Value	7.4	
Host Cell Protein (ELISA)	0.01 ng per μg of protein	
Host Cell DNA (qPCR)	0.0013 ng per mg of protein	
Mycoplasma	Negative	
Sterility	PASS	
Appearance	Lyophilized powder.	
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in injection water.	
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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