



Certificate of Analysis

M-CSF Protein, Human (CHO,Tag Free)

Cat. No.:	HY-P701101
Batch No.:	430394
Species:	Human
Source:	CHO
Tag:	Tag Free
Accession:	P09603-1 (E33-N190)
Gene ID:	1435
Molecular Weight:	Approximately 20-32 kDa due to the glycosylation.

ANALYTICAL DATA

TEST	Specifications	Results
Purity	Greater than 95% as determined by reducing SDS-PAGE.	≥95.0%
Endotoxin Level	<0.2 EU/μg, determined by LAL method.	PASS
Biological Activity	Measured in a cell proliferation assay using M-NFS-60 mouse myelogenous leukemia lymphoblast cells. The ED ₅₀ for this effect is ≤3 ng/mL, corresponding to a specific activity is 3.33×10 ⁵ units/mg.	1.494 ng/mL
Appearance	Lyophilized powder	
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/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.	

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

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