



Certificate of Analysis

GM-CSF Protein, Human

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|-------------------|----------------------|
| Cat. No.: | HY-P7016A |
| Batch No.: | 312278 |
| Species: | Human |
| Source: | <i>E. coli</i> |
| Tag: | Tag Free |
| Accession: | P04141 (A18-E144) |
| Gene ID: | 1437 |
| Molecular Weight: | Approximately 14 kDa |

ANALYTICAL DATA

| TEST | Specifications | Results |
|---------------------|---|-------------|
| Purity | Greater than 95% as determined by reducing SDS-PAGE. | 96.00% |
| Endotoxin Level | <1 EU/μg, determined by LAL method. | PASS |
| Biological Activity | The ED ₅₀ is <0.5 ng/mL as measured by TF-1 cells, corresponding to a specific activity of >2.0 × 10 ⁶ units/mg. | 22.74 pg/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.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA