



Certificate of Analysis

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

| | |
|-------------------|---------------------------------------------------|
| Cat. No.: | HY-P701101 |
| Batch No.: | 268596 |
| 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. | <0.2 EU/μg |
| Biological Activity | Measured in a cell proliferation assay using M-NFS-60 mouse myelogenous leukemia lymphoblast cells. The ED ₅₀ for this effect is 2.258 ng/ml, corresponding to a specific activity is 4.43×10 ⁵ units/mg. | 2.258 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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