

## CSF3 Protein, Rhesus macaque

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| Cat. No.:         | HY-P71877                                   |
| Synonyms:         | Granulocyte colony-stimulating factor; CSF3 |
| Species:          | Rhesus Macaque                              |
| Source:           | E. coli                                     |
| Accession:        | F7H1Q6 (T31-S207)                           |
| Gene ID:          | /   |
| Molecular Weight: | Approximately 18.9 kDa                      |

### PROPERTIES

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|---------------------|---|
| AA Sequence         | <p>T P L G P A S S L P    Q S F L L K C L E Q    V R K I Q G D G A A    L Q E K L C A T Y K</p> <p>L C H P E E L V L L    R H S L G I P W A P    L S S C P S Q A L Q    L T G C L S Q L H S</p> <p>S L F L Y Q G L L Q    A L E G I S P E L S    P T L D T L Q L D I    A D F A T T I W Q Q</p> <p>M E D L G M A P A L    Q P T Q G A M P A F    T S A F Q R R A G G    V L V A S H L Q R F</p> <p>L E L A Y R V L R H    L A Q S</p> |
| Biological Activity | Fully biologically active when compared to standard. The ED50 as determined by a cell proliferation assay using murine NFS-60 cells is 1.5-50 pg/mL, corresponding to a specific activity of >2.0x10 <sup>7</sup> IU/mg.  |
| Appearance          | Lyophilized powder  |
| Formulation         | Lyophilized from a 0.2 µm solution of 50 mM Tris-HCL, 300 mM NaCl, pH 7.4.  |
| Endotoxin Level     | <1 EU/µg, determined by LAL method.   |
| Reconstitution      | It is not recommended to reconstitute to a concentration less than 100 µg/mL in sterile distilled water. 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.   |

### DESCRIPTION

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| Background | The CSF3 Protein, belonging to the IL-6 superfamily, is a granulocyte/macrophage colony-stimulating factor that plays a crucial role in hematopoiesis. This cytokine exerts control over the production, differentiation, and function of two interconnected white cell populations in the blood, namely granulocytes and monocytes-macrophages. Specifically, CSF3 induces the generation of granulocytes, contributing to the intricate regulation of hematopoietic processes. As a key |
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member of the IL-6 superfamily, CSF3 holds significance in orchestrating the balance and functionality of essential components within the immune system.

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**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](mailto:tech@MedChemExpress.com)

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