

**GM-CSF/CSF2, Swine, Recombinant**

Cat. No. : PCK369

**General Information**

|                        |                                                                                                                                                                                  |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Synonyms</b>        | CSF2                                                                                                                                                                             |
| <b>Species</b>         | Swine                                                                                                                                                                            |
| <b>Expression host</b> | E.coli                                                                                                                                                                           |
| <b>Sequence</b>        | APTRPPSPVTRPWQHVDAIKEALSLLNNSNDTAAVMNETVDVVCEMFDPQEPTCVQTRLNLY<br>KQGLRGSLTRLKSPLTLLAKHYEQHCPLTEETSCETQSITFKSFKDSLKNKFLTIPFDCWGPVKK<br>with polyhistidine tag at the N-terminus. |
| <b>Accession</b>       | Q29118.1                                                                                                                                                                         |
| <b>Tag</b>             | His-tag at the N-terminus                                                                                                                                                        |
| <b>Mol mass</b>        | 15.3 kDa                                                                                                                                                                         |
| <b>Expiration date</b> | 12 months                                                                                                                                                                        |
| <b>Bio activity</b>    | Measure by its ability to induce proliferation in TF-1 cells. The ED50 for this effect is < 3 ng/mL.                                                                             |

**Product feature**

|                          |                                                                                                                                                                                                                                                                                                                            |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>            | > 98% as determined by SDS-PAGE. Ni-NTA chromatography.                                                                                                                                                                                                                                                                    |
| <b>Endotoxin (EU/μg)</b> | < 0.1                                                                                                                                                                                                                                                                                                                      |
| <b>Storage</b>           | Lyophilized protein should be stored at -5~-20°C for 1 year. Upon reconstitution, store at 2-8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10% FBS, 5% HSA or 5% trehalose solution), protein aliquots should be stored at -5~-20°C or -80°C for 3-6 months. |
| <b>Shipping</b>          | Ice bag                                                                                                                                                                                                                                                                                                                    |
| <b>Formulation</b>       | The protein was lyophilized from a 0.2 μm filtered solution containing 1 × PBS, pH 7.4.                                                                                                                                                                                                                                    |
| <b>Reconstitution</b>    | It is recommended to reconstitute the lyophilized protein in sterile water to a concentration not less than 100 μg/mL. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.                                                                                                                  |

**Background**

Granulocyte-macrophage colony-stimulating factor (GM-CSF), also known as colony-stimulating factor 2 (CSF2), is a monomeric glycoprotein secreted by macrophages, T cells, mast cells, natural killer cells, endothelial cells and fibroblasts that functions as a cytokine. GM-CSF also plays a role in embryonic development by functioning as an embryokine produced by reproductive tract.

### SDS-PAGE

