## **PrimeGene** a biotechne brand

## Recombinant Rhesus Macaque Interleukin-3 (rRhIL-3)

## **PrimeGene Technical Data Sheet**

Source:Escherichia coli.Molecular Weight:Approximately 14.0 kDa, a single non-glycosylated polypeptide chain containing 124 amino acids.Quantiy:2µg/10µg/1000µgAA Sequence:APMTQTTSLK TSWAKCSNMI DEIITHLNQP PLPSPDFNNL NEEDQTILVE KNLRRSNLEAFSKAVKSLQN ASAIESILKN LPPCLPMATA APTRPPIRIT NGDRNDFRRK LKFYLKTLEN EQAQPurity:>98 % by SDS-PAGE and HPLC analyses.Biological Activity:Assay #1: Fully biologically active when compared to standard. The ED <sub>50</sub> as determined by the dose- dependent stimulation of the proliferation of murine NFS-60 cells is less than 5.0 ng/ml, corresponding to a specific activity of > 2 × 10 <sup>5</sup> IU/mg. Assay #2: The ED <sub>50</sub> as determined by a cell proliferation assay using human TF-1 cells is less than 0.05 ng/ml, corresponding to a specific activity of > 2.0 × 10 <sup>7</sup> IU/mg.Physical Appearance:Sterile Filtered White lyophilized (freeze-drice) powder.Formulation:Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4, 5 % trehalose.Endotoxin:Less than 1 EU/µg of rRhL-3 as determined by LAL method.Reconstitution:We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/ml. Stock solutions should be made in appropriate buffered solutions.Shipping:Use a manual defrost freezer and avoid repeated freeze-thaw cycles.I I2 months from date of receipt, -20 to -70 °C as supplied.I I month, 2 to 8 °C under sterile conditions after reconstitution.I I month, 5 0 to 70 °C under sterile conditions after reconstitution.I I month, -20 to -70 °C	Catalog Number:	111-03
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## **Rhesus Macaque Interleukin-3**

Interleukin-3 (IL-3) is an interleukin, a type of biological signal (cytokine) which is encoded by the IL-3 gene located on chromosome 5 and produced primarily by activated T cells beside human thymic epithelial cells, activated murine mast cells, murine keratinocytes and neurons/astrocytes. The protein acts in hematopoiesis by controlling the production, differentiation, and function of 2 related white cell populations of the blood, the granulocytes and the monocytes-macrophages. The rhesus macaque IL-3 reported to be a monomer, as it is known, contains 124 amino acids residues which is a single non-glycosylated polypeptide. Specifically, recombinant rhesus macaque, human and murine IL-3 share low homology.

Website: www.primegene.com Fax: +86 21 61077348