

Growth Factor Data Sheet

GoldBio growth factors are manufactured for **RESEARCH USE ONLY** and cannot be sold for human consumption!

Interleukin-3 (IL3) is an interleukin which is a type of biological signal (cytokine) encoded by the IL3 gene located on chromosome 5, and produced primarily by activated T-cells, human thymic epithelial cells, activated murine mast cells, murine keratinocytes and murine neurons/astrocytes. The protein acts in hematopoiesis by controlling the production, differentiation and function of two related white cell populations in the blood: the granulocytes and the monocytes/macrophages. The rhesus macaque IL3 reported to be a monomer, as it is known, contains 124 amino acid residues, which make up a single nonglycosylated polypeptide. However, recombinant rhesus macaque, human and murine IL3 share low homology.

Catalog Number	1210-03
Product Name	IL3, Rhesus macaque Recombinant Rhesus macaque Interleukin-3 IL3 Interleukin 3 MULTI-CSF
Source	<i>Escherichia coli</i>
MW	~14.0 kDa (124 amino acids)
Sequence	APMTQTSLK TSWAKCSNMI DEIITHLNQP PLPSPDFNNL NEEDQTILVE KNLRRSNLEA FSKAVKSLQN ASAIESILKN LPPCLPMATA APTRPPIRIT NGDRNDFRRK LKFYKLTLEN EQAQ
Accession Number	P25140
Purity	>98% by SDS-PAGE and HPLC analyses
Biological Activity	Assay #1: Fully biologically active when compared to standard. The ED ₅₀ 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 ⁵ IU/mg. Assay #2: The ED ₅₀ 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 ⁷ IU/mg.
Formulation	Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.
Storage/Handling	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage. The reconstituted sample can be apportioned into working aliquots and stored at -80 °C for up to 6 months. Avoid repeated freeze/thaw cycles.
Reconstitution	The sample should be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a siliconized tube using PBS that contains a 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Reconstituted solutions are stable for up to one week at 2-8°C. Stock solutions should be aliquoted and stored at -80°C. Further dilutions should be made in appropriate buffered solutions containing BSA or serum.