

# Growth Factor Data Sheet

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

Interleukin-11 (IL11) is a pleiotropic cytokine that was originally detected in the conditioned medium of an IL1 $\alpha$ -stimulated primate bone marrow stromal cell line (PU-34) as a mitogen for the IL6-responsive murine plasmacytoma cell line T11. IL11 contains no cysteine residues or potential glycosylation sites. IL11 has multiple effects on both hematopoietic and nonhematopoietic cells. Many of the biological effects described for IL11 overlap with those of IL6. *In vitro*, IL11 can synergize with IL3, IL4 and SCF to shorten the G<sub>0</sub> period of early hematopoietic progenitors. IL11 also enhances the IL3-dependent megakaryocyte colony formation. IL11 has been found to stimulate the T-cell dependent development of specific immunoglobulin-secreting B-cells.

<b>Catalog Number</b> <b>Product Name</b>	<b>1310-11</b> <b>IL11, Murine</b> Recombinant Murine Interleukin-11 IL11 Interleukin 11 Megakaryocyte Colony Stimulating Factor (Meg-CSF)
<b>Source</b>	<i>Escherichia coli</i>
<b>MW</b>	~19.1 kDa (179 amino acids)
<b>Sequence</b>	MPGPPAGSPR VSSDPRADLD SAVLLTRSLI ADTRQLAAQM RDKFPADGDH SLDSLPTLAM SAGTLGSLQL PGVLTRLRVD LMSYLHVQW LRRAGGPSLK TLEPELGALQ ARLERLLRRL QLLMSRLALP QAAPDQVIP LGPPASAWGS IRAAHAILGG LHLLTDWAVR GLLLLKTRL
<b>Accession Number</b>	<a href="#">P47873</a>
<b>Purity</b>	>97% by SDS-PAGE and HPLC analyses
<b>Biological Activity</b>	Fully biologically active when compared to standard. The ED <sub>50</sub> as determined by a cell proliferation assay using murine T11 cells is less than 2 ng/ml, corresponding to a specific activity of >5.0 × 10 <sup>5</sup> IU/mg.
<b>Formulation</b>	Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.
<b>Storage/Handling</b>	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.
<b>Reconstitution</b>	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.