

Growth Factor Data Sheet

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

Interleukin-11 (IL11) is encoded by the IL11 gene and is a member of IL6 superfamily, which is distinguished based on its use of the common co-receptor gp130. IL11 is a multifunctional cytokine that was first isolated from bone marrow-derived stromal cells. IL11 receptor activation requires the formation of a complex that contains two IL11 molecules, two molecules of the ligand-binding IL11 RF subunit, and two molecules of the expressed cell signaling G-subunit, gp130. The functions of IL11 are that it directly stimulates the proliferation of hematopoietic stem cells and megakaryocyte progenitor cells, and induces megakaryocyte maturation that results in increased platelet production.

Catalog Number	1110-11
Product Name	IL11, Human Recombinant Human Interleukin-11 HuIL11 Megakaryocyte Colony Stimulating Factor (Meg-CSF)
Source	<i>Escherichia coli</i>
MW	~19.1 kDa (179 amino acids)
Sequence	MPGPPPGPPR VSPDPRAELD STVLLTRSLL ADTRQLAAQL RDKFPADGDH NLDSLPTLAM SAGALGALQL PGLVLRRLAD LLSYLRHVQW LRRAGGSSLK TLEPELGTQ ARLDRLLRRL QLLMSRLALP QPPDPAPP LAPPSSAWGG IRAAHAILGG LHLLTDWAVR GLLLLKTRL
Accession Number	P20809
Purity	>95% by SDS-PAGE and HPLC analyses
Biological Activity	Fully biologically active when compared to standard. The ED ₅₀ as determined by a cell proliferation assay using murine B9-11 cells is less than 1 ng/ml, corresponding to a specific activity of >1.0 × 10 ⁶ 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.