Technical Data Sheet

Recombinant Murine Interleukin-11 (rMu IL-11)

Mouse Interleukin-11

Interleukin 11 is a pleiotropic cytokine that was originally detected in the conditioned medium of an IL-1α-stimulated primate bone marrow stromal cell line (PU-34) as a mitogen for the IL-6-responsive murine plasmacytoma cell line T11. IL-11 contains no cysteine residues or potential glycosylation sites. IL-11 has multiple effects on both hematopoietic and nonhematopoietic cells. Many of the biological effects described for IL-11 overlap those for IL-6. In vitro, IL-11 can synergize with IL-3, IL-4 and SCF to shorten the G0 period of early hematopoietic progenitors. IL-11 also enhances the IL-3-dependent megakaryocyte colony formation. IL-11 has been found to stimulate the T cell dependent development of specific immunoglobulin-secreting B cell.

Catalog Number:	RC232-22
Source:	*Escherichia coli.*
Molecular Weight:	Approximately 19.1 kDa, a single non-glycosylated polypeptide chain containing 179 amino acids.
Quantity:	2ug/10ug/1mg
Purity:	>97% by SDS-PAGE and HPLC analyses.
Biological Activity:	Fully biologically active when compared to standard. The ED50 as determined by the dose-dependant stimulation of the proliferation of murine T11 was found to be less than 2.0 ng/ml, corresponding to a specific activity of 5×10^5 IU/mg.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2μm filtered solution in PBS, pH 7.4.
AA Sequence:	MPGPPAGSPRVSSDPRADLDSAVLLTRSLLADTRQLAAQMRDKFPADGDHS LDSLPTLAMSAGTLGSLQLPGVLTRLRVDLMSYLRHVQWLRRAGGPSLKTL EPELGALQARLERLLRRLQLLMSRLALPQAAPDQPVIPLGPPASAWGSIRAA HAILGG LHLTLDWAVR GLLLLKTRL
Endotoxin:	Less than 1EU/μg of rmIL-11 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 apportioned into working aliquots and stored at ≤-20°C. Further dilutions should be made in appropriate buffered solutions.
Storage:	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long

	term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C. **Avoid repeated freeze/thaw cycles**.
Usage:	This material is offered by Bio Basic Inc. for research, laboratory or further evaluation purposes. **NOT FOR HUMAN USE**.