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IL11
Recombinant Human Interleukin-11, Animal Free

Catalog No.	CRI176A-AF	**Quantity:**	2 µg
	CRI176B-AF		10 µg
	CRI176C-AF		1.0 mg

Alternate Names: AGIF (Adipogenesis Inhibitory Factor), oprelvekin, IL-11

Description: Interleukin-11 (IL-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 T1165. IL-11 was also independently discovered as an adipogenesis inhibitory factor (AGIF). The human IL-11 cDNA encodes a 199 amino acid residue precursor polypeptide with a 21 amino acid residue hydrophobic signal that is processed proteolytically to generate the 178 amino acid residue mature protein. 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.

Gene ID: 3589

UniProt ID:: P20809

Source: *E. coli*

Molecular Weight: 19.3 kDa (179 aa)

Formulation: Lyophilized from a 0.2µm filtered aqueous solution containing 0.1% Trifluoroacetic acid (TFA).

Purity: >95%, by reducing and non-reducing SDS-PAGE.

Endotoxin Level: < 1EU/µg, by kinetic LAL.

Biological Activity: ED_{50} ≤ 10 ng/ml, determined by a cell proliferation assay using TF-1 cells.
ED_{50} ≤ 2.5 ng/ml, determined by a cell proliferation assay using T11 cells.

Specific Activity: > 1.0×10^6 IU/mg, by proliferation assay using TF-1 cells.
> 4.0×10^6 IU/mg, by proliferation assay using T11 cells.

Amino Acid Sequence: MPGPPPGPPR VSPDPRAELD STVLLTRSLL ADTRQLAAQL RDKFPADGDH NLDSLPTLAM SAGALGALQL PGVLTRLRAD LLSYLRHVQW LRRAGGSSLK TLEPELGTLQ ARLDRLLRRL QLLMSRLALP QPPPDPPAPP LAPPSSAWGG IRAAHAILGG LHLTLDWAVR GLLLLKTRL

Reconstitution:

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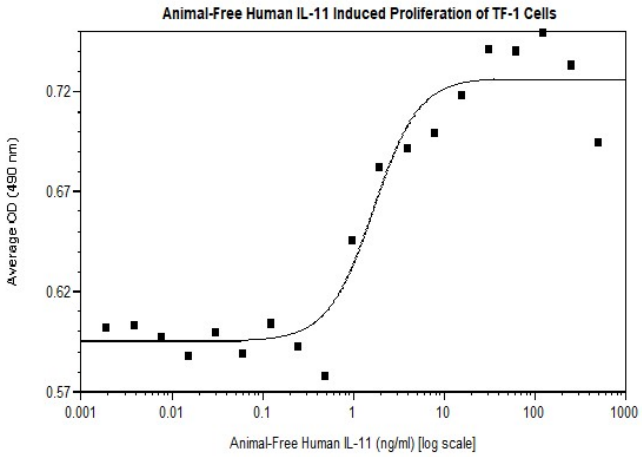
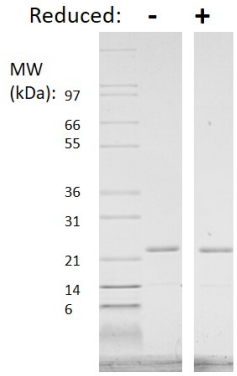
concentration of 0.1-1.0 mg/mL. Further dilutions should be made in appropriate buffered solutions.

Storage & Stability: This lyophilized preparation is stable at 2-8°C for shipping purposes. Upon receipt, store at -20°C to -80°C. 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 -80°C. Avoid repeated freeze/thaw cycles. **Avoid repeated freeze/thaw cycles.**





Human IL-11 Gel
Figure: 1 ug in each lane (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Human IL-11 has a predicted MW of 19.3 kDa.

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

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