



*Recombinant Human IL-11*  
(Interleukin-11)

*Catalog Number: 100-84*  
*Accession Number: P20809*

*Specifications and Uses:*

**Alternate Names:** AGIF (Adipogenesis Inhibitory Factor), oprelvekin

**Description:**

Interleukin 11 (IL-11) is a pleotropic cytokine closely related to IL-6 in function, but is overall one of the lesser characterized interleukins. In hematopoietic cell populations, IL-11 is thought to induce megakaryocyte differentiation. In non-hematopoietic populations, IL-11 is thought to be able to stimulate hepatic acute-phase proteins. Human IL-11 can stimulate murine cells. Recombinant human IL-11 is a non-glycosylated protein, containing 179 amino acids, with a molecular weight of 19.3 kDa.

**Source:** *E.coli*

**Physical Appearance:** Sterile filtered white lyophilized (freeze-dried) powder.

**Formulation and Stability:**

Recombinant human IL-11 is lyophilized with no additives.

Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

**Reconstitution:**

Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.

**Protein Content and Purity (typically ≥ 95%) determined by:**

Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm

**Endotoxin Level:**

Measured by kinetic LAL analysis and is typically ≤ 1 EU/μg protein.

**Biological Activity:**

The activity is determined by the dose-dependent proliferation of T11 cells is typically less than 2 ng/mL.

**AA Sequence:**

MPGPPPGPPR VSPDPRAELD STVLLTRSL ADTRQLAAQL RDKFPADGDH NLDLPTLAM SAGALGALQL  
PGVLTRLRAD LLSYLHVQW LRRAGGSSLK TLEPELGTQ ARLDRLLRRL QLLMSRLALP QPPDPPAPP  
LAPPSSAWGG IRAAHAILGG LHLTLDWAVR GLLLLKTRL

**THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!**

Gentaur Molecular Products  
Voortstraat 49  
1910 Kampenhout, Belgium