

## 32-12170: Human Interleukin-11

**Gene :** IL11  
**Gene ID :** 3589  
**Uniprot ID :** P20809  
**Alternative Name :** AGIF (Adipogenesis Inhibitory Factor), oprelvekin

### Description

**Source:** Genetically modified E.coli.

**Predicted MW:** Monomer, 19.3 kDa (179 aa)

Interleukin 11 (IL-11) is a member of the gp130 family of cytokines. IL-11 functions to promote hematopoietic stem cell proliferation and megakaryocyte differentiation. In non-hematopoietic cell populations, IL-11 stimulates acute-phase proteins, modulates the development of immunoglobulin-producing B cells, and regulates bone turnover. IL-11 binds the IL-11Ralpha receptor to activate JAK downstream signaling. Human IL-11 shows activity on murine cells.

### Product Info

**Amount :** 10 µg / 100 µg  
**Purification :** Reducing and Non-Reducing SDS PAGE at  $\geq 95\%$   
**Content :** Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)  
Sterile water at 0.1 mg/mL  
**Storage condition :** Store at  $-20^{\circ}\text{C}$   
**Amino Acid :** MPGPPPGPPR VSPDPRAELD STVLLTRSL ADTRQLAAQL RDKFPADGDH NLDSLPTLAM SAGALGALQL PGVLRRLRAD LLSYLRHVQW LRRAGGSSLK TLEPELGTLLQ ARLDRLRLRL QLLMSRLALP QPPDPAPP LAPPSSAWGG IRAAHAILGG LHLTLDWAVR GLLLLKTRL

### Application Note

**Endotoxin:** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.

Biological Activity was determined by T11 cell proliferation OR TF-1 cell proliferation at  $\leq 2.5$  ng/mL;  $\geq 4.0 \times 10^5$  units/mg OR  $\leq 10$  ng/mL;  $\geq 1.0 \times 10^5$  units/mg. Centrifuge vial before opening, Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at  $-80^{\circ}\text{C}$  and avoid repeat freeze thaws. Upon reconstitution, a small amount of visible precipitate can be expected. A 10% overfill has been added to the total material vial to compensate for this loss.



