

## IL-11, Human(CHO-expressed)

**Cat. No.:** Z03108-5

**Size:** 5.0 ug

**Synonyms:** AGIF (Adipogenesis inhibitory factor)

### Description:

Interleukin-11 is a pleiotropic cytokine that was originally detected in the conditioned medium of an IL-1 $\alpha$ -stimulated primate bone marrow stromal cell line (PU-34) as a mitogen for the IL-6-responsive mouse plasmacytoma cell line T11. IL-11 has multiple effects on both hematopoietic and non-hematopoietic cells. Many of the biological effects described for IL-11 overlap with 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 cells.

### Amino Acid Sequence:

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00001 PGPPPGPPRV SPDRAELDS TVLLTRSLLA DTRQLAAQLR
00041 DKFPADGDHN LDSLPTLAMS AGALGALQLP GVLTRLRADL
00081 LSYLRHVQWL RRAGGSSLKT LEPELGTLQA RLDRLRLRLQ
00121 LLMSRLALPQ PPPDPPAPPL APPSSAWGGI RAAHAILGGL
00161 HLTLDWAVRG LLLLKTRL
```

**Source:** CHO

**Species:** Human

**Biological Activity:** ED<sub>50</sub> <5 ng/ml, measured in a proliferation assay using T11 cells.

**Molecular Weight:** 23 kDa, observed by reducing SDS-PAGE.

**Formulation:** Lyophilized after extensive dialysis against PBS.

**Reconstitution:** Reconstituted in ddH<sub>2</sub>O or PBS at 100  $\mu$ g/ml.

**Purity:** > 95% as analyzed by SDS-PAGE and HPLC.

**Endotoxin Level:** < 0.2 EU/ $\mu$ g, determined by LAL method.

**Storage:** Lyophilized recombinant Human Interleukin-11 remains stable up to 6 months when stored at lower than -70°C from date of receipt. Upon reconstitution, Human Interleukin-11 should be stable up to 1 week at 4°C or up to 2 months at -20°C.