

IL-11, Human(CHO-expressed)

Cat. No.: Z03108-25

Size: 25.0 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 α -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:

```
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: ED₅₀ <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 ddH₂O or PBS at 100 μ g/ml.

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

Endotoxin Level: < 0.2 EU/ μ 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.