

## IL 11 Human, Pichia

**Description:** IL11 Human Recombinant produced in Pichia Pastoris is a single, non-glycosylated, Polypeptide chain containing 177 amino acids (it differs from the 178 amino acid length of the native IL11 only in lack of the N-terminal praline residue) and having a molecular mass of 19kDa. The IL11 is purified by proprietary chromatographic techniques.

**Catalog #:** CYPs-020

For research use only.

**Synonyms:** Interleukin-11, IL-11, Adipogenesis inhibitory factor, AGIF, Oprelvekin, IL11.

**Source:** Pichia Pastoris.

**Physical Appearance:** Sterile Filtered White lyophilized (freeze-dried) powder.

**Amino Acid Sequence:** The sequence of the first five N-terminal amino acids was determined and was found to be Gly-Pro-Pro-Pro-Gly.

**Purity:** Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

**Formulation:**

IL11 was lyophilized after extensive dialysis against 20mM PB, pH7.0 and 2% Glycine buffer.

**Stability:**

Lyophilized IL11 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL11 should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Solubility:**

It is recommended to reconstitute the lyophilized Interleukin -11 in sterile 18M-cm H<sub>2</sub>O not less than 100

**Introduction:**

IL11 is a member of the gp130 family of cytokines. These cytokines drive the assembly of multisubunit receptor complexes, all of which contain at least one molecule of the transmembrane signaling receptor IL6ST (gp130). IL-11 is shown to stimulate the T-cell-dependent development of immunoglobulin-producing B cells. It is also found to support the proliferation of hematopoietic stem cells and megakaryocyte progenitor cells.

**Biological Activity:**

The ED<sub>50</sub> as determined by the dose-dependent stimulation of the proliferation of murine 7TD1 was found to be less than 0.2ng/ml, corresponding to a Specific Activity of 8,000,000 IU/ mg.

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