

# rHulL-11

## Recombinant Human Interleukin-11

Product	Cat#	Package size
Recombinant Human Interleukin-11	C6029.0002	2µg
Recombinant Human Interleukin-11	C6029.0010	10µg
Recombinant Human Interleukin-11	C6029.1000	1mg

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

### Product description

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.

Recombinant Human IL-5 produced in *E.coli* is a dimeric, non-glycosylated polypeptide of 179 amino acids each and a total molecular weight of 19256 Dalton.

**Source:** *Escherichia coli*

### Biological activity

The ED50 as determined by the dose-dependent stimulation of the proliferation of murine 7TD1 was found to be <10ng/mL, corresponding to a Specific Activity of 100,000 IU/mg.

**Purity:** Greater than 98% by SDS-PAGE and HPLC analysis.

### 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. The N-terminal methionine has been completely removed enzymatically.

**Formulation:** The protein was lyophilized from a concentrated (1mg/ml) solution with no additives.

### Solubility / Reconstitution

It is recommended to briefly centrifuge the vial prior to opening to bring the contents to the bottom. Reconstitute the lyophilised rHulL-11 in sterile water not less than 100µg/mL, which can then be further diluted to other aqueous solutions.

### Stability

Lyophilised rHulL-11 although stable at room temperature for 3 weeks, should be stored desiccated at -20°C. Reconstituted rHulL-11 is best stored refrigerated at +2°C to +8°C between 2-7 days and at -20°C for long term storage. For long term storage it is recommended to add a carrier protein (e.g., 0.1% HSA or BSA).

**Please prevent from repeated freeze-thaw cycles.**

### Protein Content

Protein quantitation was carried out by two independent methods:

1. UV spectroscopy at 280 nm using the absorbency value of 0.95 as the extinction coefficient for a 0.1% (1mg/mL) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics).
2. Analysis by RP-HPLC, using a standard solution of IL-11 as a Reference Standard.

### Usage

This product is **for research/laboratory usage only**. It may not be used as drug, agricultural or pesticidal product, food additive or household chemical.