

Recombinant Mouse Interleukin-11 (rm IL-11)

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

Introduction: IL11 is a member of the gp130 family of cytokines. These cytokines drive the assembly of multisubunit receptor complexes, all containing 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.

Description: Recombinant mouse IL-11 produced in *E.Coli* is a single, non-glycosylated polypeptide chain containing 179 amino acids and having a molecular mass of 19.2kDa. Rm IL-11 is purified by proprietary chromatographic techniques.

Source: *Escherichia Coli*.

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

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

Solubility: It is recommended to reconstitute the lyophilized rm IL-11 in sterile H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability: Lyophilized rm IL-11 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution rm IL-11 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Purity: Greater than 95.0% as determined by:

(a) Analysis by RP-HPLC.

(b) Analysis by SDS-PAGE.

Amino acid sequence: MPGPPAGSPR VSSDPRADLD SAVLLTRSLD ADTRQLAAQM RDKFPADGDH SLDSLPTLAM SAGTLGSLQL PGVLRRLRVD LMSYLRHVQW LRRAGGPSLK TLEPELGALQ ARLERLLRRL QLLMSRLALP QAAPDQPVIP LGPPASAWGS IRAAHAILGG LHLTLDWAVR GLLLLKTRL

Biological Activity: The ED₅₀ as determined by the dose-dependant stimulation of the proliferation of mouse 7TD1 was found to be less than 1.5 ng/ml.

This material is offered for **research only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

<i>small</i>	2 µg	Cat.N°	12340112
<i>medium</i>	10 µg	Cat.N°	12340113
<i>large</i>	50 µg	Cat.N°	12340115

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