

Recombinant Mouse Interleukin-11 (rm IL-11)

Synonyms: Adipogenesis Inhibitory Factor (AGIF), Oprelvekin.

Introduction: IL-11 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 0.22 µm filtered solution in sodium phosphate pH7.5
The aliquots of 1µg and 2µg contain Trehalose 5% (w/vol) for better recovery

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 SDS-PAGE.

Amino acid sequence: MPGPPAGSPR VSSDPRADLD SAVLLTRSLL ADTRQLAAQM RDKFPADGDH
SLDLSPTLAM SAGTLGSLQL PGVLTRLRVD LMSYLRHVQW LRRAGGPSLK TLEPELGALQ ARLERLLRRL
QLLMSRLALP QAAPDQVIP LGPPASAWGS IRAAHAILGG LHLLTDWAVR GLLLLKTRL

Endotoxicity: The endotoxin level is less than 1 EU / µg determined by LAL method.

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 corresponding to a specific activity of ≥ 5 x 10⁵ IU/mg.

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
<i>x-large</i>	250 µg	Cat.N°	12340117
<i>xx-large</i>	1000 µg	Cat.N°	12340118

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