

## Recombinant Murine Interleukin-11 (rm IL-11)

Murine **Interleukin-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.

**Recombinant murine 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.

- Synonyms :** Adipogenesis Inhibitory Factor (AGIF), Oprelvekin.
- Source:** *Escherichia coli*
- AA Sequence:** MPGPPAGSPR VSSDPRADLD SAVLLTRSLL ADTRQLAAQM RDKFPADGDH  
SLDSLPTLAM SAGTLGSLQL PGVLTRLRVD LMSYLRHVQW LRRAGGPSLK  
TLEPELGALQ ARLERLLRRL QLLMSRLALP QAAPDQPVIP LGPPASAWGS  
IRAAHAILGG LHLLTDWAVR GLLLLKTRL
- Formulation:** Lyophilized from a 0.22 µm filtered solution in sodium phosphate pH7.5
- Reconstitution:** Reconstitute in sterile endotoxin free water not less than 100 µg/ml
- Stability:** The lyophilized protein 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.
- Biological Activity:** The ED<sub>50</sub> as determined by the dose-dependant stimulation of the proliferation of mouse 7TD1 was found to be less then 1.5 ng/ml corresponding to a specific activity of ≥ 5 x 10<sup>5</sup> IU/mg.
- Purity:** Greater than 95.0% as determined by SDS-PAGE
- Endotoxicity:** The endotoxin level is less than 0.1 ng per µg (1EU/µg) determined by LAL method
- Order N°:** rm IL-11 +Size  
available sizes: 2 µg, 10 µg, 50 µg

This material is offered **for laboratory research and in vitro use only**, not for drug, diagnostic or other use. EuroBioSciences will not be held responsible for patent infringement or other violations that may occur with the use of our products.