



## PRODUCT DATA SHEET

**Product:** IL-11 (recombinant human)

**Cat. No.:** BC-284 (10 µg)

**Synonyms:**

Interleukin-11 precursor, Adipogenesis inhibitory factor, AGIF, Oprelvekin

**Description:**

Recombinant human IL-11 produced in *E. Coli* is a single, non-glycosylated polypeptide chain containing 179 amino acids and having a molecular mass of 19,256.29 Dalton.

**Amino Acid Sequence:**

The sequence of the first five N-terminal amino acids was determined to be Gly-Pro-Pro-Pro-Gly. N-terminal methionine has been completely removed enzymatically.

**Origin:**

Produced in *E. Coli*.

**Format:**

Sterile filtered white powder. Lyophilized from a 1 mg/mL solution with no additives.

**Purity:**

Greater than 98.0% as determined by RP-HPLC, anion-exchange FPLC, reducing and non-reducing SDS-PAGE Silver Stained gel. Dimers and aggregates: less than 1% as determined by silver-stained SDS-PAGE.

**Endotoxin:**

Less than 0.1 ng/µg (IEU/µg) of recombinant human IL-11.

**Reconstitution:**

Reconstitute in sterile 18 MΩ-cm H<sub>2</sub>O at not less than 100 µg/mL, which can then be further diluted to other aqueous solutions.

**Biological Activity:**

Human recombinant IL-11 is fully biologically active when compared to standard. The ED50 as determined by the dose-dependant stimulation of the proliferation of mouse 7TD1 was found to be less than 10 ng/mL<sub>5</sub>, corresponding to a specific activity of 1 x 10<sup>5</sup> IU/mg.

**Storage:**

Lyophilized recombinant human IL-11, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution recombinant human 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).

**Limitations:**

For *in vitro* research use only. Not for use in diagnostics or in humans.

**Warranty:**

No warranties, expressed or implied, are made regarding the use of this product. KAMIYA BIOMEDICAL COMPANY is not liable for any damage, personal injury, or economic loss caused by this product.