



## PRODUCT DATA SHEET

**Product:** IL-22 (recombinant human)

**Cat. No.:** BC-291 (10 µg)

**Synonyms:**

Interleukin-22 precursor, IL-10-related T-cell-derived-inducible factor, IL-TIF

**Description:**

Recombinant Human IL-22 produced in *E. Coli* is a non-disulfide-linked homodimeric, non-glycosylated polypeptide chain containing 2 x 146 amino acids and having a total molecular mass of 33,607 Daltons. Recombinant Human IL-22 is purified by proprietary chromatographic techniques.

**Origin:**

Produced in *E. Coli*.

**Format:**

Sterile filtered white powder. Each mg contains 42% mannitol and 31% HSA.

**Purity:**

Greater than 97.0% 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.

**Amino Acid Sequence:**

The sequence of the first five N-terminal amino acids was determined and was found to be Met-Ala-Pro-Ile-Ser.

**Endotoxin:**

Less than 0.1 ng/µg (IEU/µg) of Recombinant Human IL-22.

**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-22 is fully biologically active when compared to standard. The biological activity was determined by the ability to activate STAT following receptor ligand interaction.

**Storage:**

Lyophilized Recombinant Human IL-22, although stable at room temperature for 3 weeks, should be stored desiccated below -22°C. Upon reconstitution Recombinant Human IL-22 should be stored at 4°C between 2-7 days and for future use below -22°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid repeated freeze/thaw cycles.

**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.