



PRODUCT DATA SHEET

Product: IL-20 (recombinant human)

Cat. No.: BC-290 (10 µg)

Synonyms:

Interleukin-20 precursor, Four alpha helix cytokine Zcyto10

Background:

The newly discovered cytokine interleukin-20 (IL-20) is structurally related to IL-10, yet it appears to be an autocrine factor for keratinocytes that regulates their participation in inflammation.

Description:

Recombinant Human IL-20 produced in *E. Coli* is a homodimeric, non-glycosylated polypeptide chain containing 2 x 153 amino acids and having a total molecular mass of 35,212 Daltons. Recombinant Human IL-20 is purified by proprietary chromatographic techniques.

Origin:

Produced in *E. Coli*.

Format:

Sterile filtered white powder. Lyophilized from a 1 mg/mL solution containing 100 mM sodium chloride and 10 mM sodium citrate buffer, pH 3.0.

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.

Amino Acid Sequence:

The sequence of the first five N-terminal amino acids was determined and was found to be Met-Leu-Lys-Thr-Leu.

Endotoxin:

Less than 0.1 ng/µg (IEU/µg) of Recombinant Human IL-20.

Reconstitution:

Reconstitute in sterile 18 MΩ-cm H₂O at not less than 100 µg/mL, which can then be further diluted to other aqueous solutions.

Biological Activity:

Human Recombinant IL-20 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-20, although stable at room temperature for 3 weeks, should be stored desiccated below -20°C. Upon reconstitution Recombinant Human IL-20 should be stored at 4°C between 2-7 days and for future use below -20°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.