



Interleukin-20, human recombinant (rHuIL-20)

Catalog No: 87320
Lot No: XXXXX
Source: *E. coli*
Synonyms: IL10D, ZCYTO10, IL-20, MGC96907, Four alpha helix cytokine Zcyto10

Background

IL20 is a cytokine structurally related to interleukin 10 (IL10). IL20 cytokine has been shown to transduce its signal through signal transducer and activator of transcription 3 (STAT3) in keratinocytes. A specific receptor for this cytokine is found to be expressed in skin and upregulated dramatically in psoriatic skin, suggesting a role for this protein in epidermal function and psoriasis.

Description

Interleukin-20 human recombinant produced in *E. coli* is a single, non-glycosylated homodimeric polypeptide chain containing 2 x 153 amino acids and having a total molecular mass of 35.212 Dalton. IL-20 is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

Lyophilized carrier free.

Solubility

It is recommended to reconstitute the lyophilized Interleukin-20 in sterile 18 MΩ-cm H₂O at a concentration of 0.5 mg/ml or less.

Stability

Lyophilized Interleukin-20, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL20 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 (a) Analysis by RP-HPLC, (b) Analysis by 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.

Activity

The biological activity was determined by measuring the dose dependent activation of STAT3 in human epidermal keratinocytes (HEKa cells). Significant STAT3 activation is observed with 100 ng/ml of recombinant human IL-20 corresponding to a specific activity of 10,000 IU/mg.

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