



Product Datasheet

Product Name	Interleukin-20 Human Recombinant
Cata No	CB500249
Source	<i>Escherichia Coli.</i>
Synonyms	IL10D, ZCYTO10, IL-20, MGC96907, Four alpha helix cytokine Zcyto10.

Description

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.

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. The IL-20 is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Biological 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.

Purity

Greater than 95.0% as determined by:

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE.

Formulation

Lyophilized carrier free.

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.

Sequence

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