

Recombinant Mouse Interleukin-20 (IL-20 Mouse)

Source: E.Coli

Catalog No.: CYT-379

Introduction :

IL-20 is a cytokine structurally related to interleukin 10 (IL-10). IL-20 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 Mouse Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 152 amino acids and having a total molecular mass of 17,584 Dalton. The IL-20 is purified by proprietary chromatographic techniques.

Synonyms:

IL10D, ZCYTO10, IL-20, MGC96907, Four alpha helix cytokine Zcyto10.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized from a concentrated (1mg/ml) solution containing no additives.

Solubility:

It is recommended to reconstitute the lyophilized Interleukin-20 in sterile 18MΩ-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Stability:

Lyophilized Interleukin 20 although stable at room temperature for 3 weeks, should be stored desiccated below -18⁰C. Upon reconstitution IL20 should be stored at 4⁰C between 2-7 days and for future use below -18⁰C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please avoid 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.

Biological Activity:

The biological activity was determined by measuring the dose dependent activation of STAT3 in human epidermal keratinocytes (HEK2a cells). Significant STAT3 activation is observed with >100 ng/mL of Interleukin-20 recombinant mouse.

Protein content:

Protein quantitation was carried out by two independent methods:

1. UV spectroscopy at 280 nm using the absorbency value of 0.552 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein

sequences (IntelliGenetics).

2. Analysis by RP-HPLC, using a standard solution of IL-20 as a Reference Standard.

Usage:

Product is furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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