

Recombinant Mouse Interleukin 20

Cat. No. II20-74M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Interleukin-20 produced in <i>E. Coli</i> 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.
Species	Mouse
Source	E.coli
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.
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.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Formulation	Lyophilized from a concentrated (1 mg/ml) solution containing no additives.
Solubility	It is recommended to reconstitute the lyophilized Interleukin-20 in sterile 18 MΩ-cm

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H2O not less than 100 g/ml, which can then be further diluted to other aqueous solutions.

Specific 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.

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.

GENE INFORMATION

Gene Name

[IL20 interleukin 20 \[Mus musculus \]](#)

Synonyms

IL20; interleukin 20; Zcyto10; MGC130536; four helix bundle cytokine 10

Gene ID

[58181](#)

mRNA Refseq

[NM_021380](#)

Protein Refseq

[NP_067355](#)

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UniProt ID	Q9JKV9
Chromosome Location	1 E4
Pathway	Cytokine-cytokine receptor interaction; Jak-STAT signaling pathway
Function	cytokine activity; interleukin-20 receptor binding; receptor binding

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