

## Active Recombinant Mouse Il20 Protein, His-Tagged

**Cat. No.** Il20-01M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant mouse Il20 Protein, His-tagged was expressed in E. coli cell                                                                                                                                                                                                                                                                                                                                                     |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>      | Interleukin 20 (IL20) is a cytokine structurally related to interleukin 10 (IL-10). This 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. |
| <b>Form</b>             | Lyophilized powder                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>AA Sequence</b>      | MLKTLHLGSCVITANLQAIQKEFSEIRDSVQAEDTNIDIRILRTTESLKDIKSLDRCCFL<br>RHLVRFYLDREVFKVYQTPDHHTLRKISSLANSLFIKK<br>DLSVCHSHMACHCGEEAMEKYNQILSHFIELELQAAVVKALGELGILLRWMEEML with polyhistidine tag at the C-terminus                                                                                                                                                                                                                   |
| <b>Endotoxin</b>        | <0.1 EU per 1 µg of the protein by the LAL method.                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Bio-activity</b>     | Measure by its ability to induce proliferation in BaF3 cells transfected with human IL-20 R alpha and human IL-20 R beta. The ED50 for this effect is <2 ng/mL.                                                                                                                                                                                                                                                              |
| <b>Purity</b>           | >98% as determined by SDS-PAGE. Ni-NTA chromatography                                                                                                                                                                                                                                                                                                                                                                        |

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|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage Buffer</b> | The protein was lyophilized from a solution containing 1X PBS, pH 7.4.                                                                                                                                                  |
| <b>Reconstitution</b> | It is recommended to reconstitute the lyophilized protein in sterile H <sub>2</sub> O to a concentration not less than 100 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved. |
| <b>Storage</b>        | Lyophilized protein should be stored at -20°C. Upon reconstitution, protein aliquots should be stored at -20°C or -80°C.                                                                                                |
| <b>Notes</b>          | Please use within one month after protein reconstitution.                                                                                                                                                               |

## GENE INFORMATION

|                        |                                                           |
|------------------------|-----------------------------------------------------------|
| <b>Gene Name</b>       | Il20 interleukin 20 [ <i>Mus musculus</i> (house mouse) ] |
| <b>Official Symbol</b> | Il20                                                      |
| <b>Synonyms</b>        | If2d; Zcyto10                                             |
| <b>Gene ID</b>         | 58181                                                     |
| <b>mRNA Refseq</b>     | NM_001311091.1                                            |
| <b>Protein Refseq</b>  | NP_001298020.1                                            |
| <b>UniProt ID</b>      | Q9JKV9                                                    |

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