

Recombinant Human Interleukin-20 (rh IL-20)

Synonyms: IL10D, ZCYTO10, Four alpha helix cytokine Zcyto10.

Introduction: IL-20 is a cytokine structurally related to Interleukin 10. IL-20 has been shown to transduce its signal through signal transducer and activator of transcription 3 (STAT3) in keratinocytes. A specific receptor for IL-20 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: Recombinant human IL-20 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 rh IL-20 is purified by proprietary chromatographic techniques.

Source: *Escherichia Coli*.

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation: Lyophilized from a 0.22 µm filtered solution in 25 mM sodium phosphate, 200 mM NaCl, pH 6.5. The aliquots of 1µg and 2µg contain Trehalose 5% (w/vol) for better recovery.

Solubility: It is recommended to reconstitute the lyophilized rh IL-19 in sterile H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability: Lyophilized rh IL-20 although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. Upon reconstitution rh IL-20 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 SDS-PAGE.

Endotoxicity: The endotoxin level is less than 1 EU / µg determined by LAL method.

Amino acid sequence: MLKTLNLGSC VIATNLQEIR NGFSEIRGSV QAKDGNIDIR ILRRTESLQD
TKPANRCCLL RHLLRLYLDR VFKNYQTPDH YTLRKISSLA NSFLTICKDL RLCHAHMTCH
CGEEAMKKYS QILSHFEKLE PQAAVVKALG ELDILLQWME ETE

Biological Activity: The biological activity was tested by hIL-20 induced reporter gene expression in hIL-20R transfected Ba/F3 cells.

Endotoxin: The endotoxin level is less than 1 EU / µg determined by LAL method.

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<i>small</i>	2 µg	Cat.N°	11340202
<i>medium</i>	10 µg	Cat.N°	11340203
<i>large</i>	50 µg	Cat.N°	11340205
<i>x-large</i>	250 µg	Cat.N°	11340207

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