

Rev03  
Update: Dec,14,2021

**DATASHEET**

# IL-20, Human

Cat. No.: Z02714

## Product Introduction

<b>Species</b>	Human
<b>Protein Construction</b>	Expressed with an N-terminal Met. <b>IL-20 (Leu25-Glu176) Accession # Q9NYY1</b>
<b>Purity</b>	> 95% as analyzed by SDS-PAGE > 95% as analyzed by HPLC
<b>Endotoxin Level</b>	< 1 EU/ $\mu$ g of protein by LAL method
<b>Biological Activity</b>	Fully biologically active when compared to standard. The ED <sub>50</sub> as determined by a cell proliferation assay using human IL-20R $\alpha$ and human IL-20R $\beta$ co-transfected murine BaF3 pro-B cells is less than 0.5 ng/ml, corresponding to a specific activity of > 2.0 $\times$ 10 <sup>6</sup> IU/mg.
<b>Expression System</b>	E. coli
<b>Theoretical Molecular Weight</b>	17.6 kDa
<b>Formulation</b>	Lyophilized from a 0.2 $\mu$ m filtered solution in PBS, pH 7.2, with trehalose.
<b>Reconstitution</b>	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/ml.
<b>Storage &amp; Stability</b>	Upon receiving, this product remains stable for up to 6 months at -70°C or -20°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. Avoid repeated freeze-thaw cycles.

## Background

**Target Background :** IL-20 is a member of the IL-10 family of regulatory cytokines which includes IL-10, IL-19, IL-20, IL-22, IL-24 and IL-26. Members of this family share partial homology in their amino acid sequences but they are dissimilar in their biological functions. IL-20 is a hematopoietic growth factor capable of stimulating colony formation by CD34+ multipotential progenitors, but not by other progenitor cells. IL-20 signals through a receptor system composed of type I IL-20R- $\alpha$  and type II IL-20R- $\beta$ . Over-expression of IL-20 in keratinocytes expressing both receptor subunits has been implicated in the induction of inflammatory skin disease.

**Synonyms :** IL20; IL-20; IL10D; ZCYTO10; Interleukin 20

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.