

# Technical Data Sheet

## **Flogen<sup>®</sup> Recombinant Human Interleukin-20 (rHuIL-20)**

<b>Catalog Number:</b>	PGR0101-020
<b>Source:</b>	<i>Escherichia coli</i> .
<b>Molecular Weight:</b>	Approximately 17.6 kDa, a single non-glycosylated polypeptide chain containing 153 amino acids.
<b>Quantity:</b>	2µg/10µg/1mg
<b>AA Sequence:</b>	MLKTLNLGSC VIATNLQEIR NGFSEIRGSV QAKDGNIDIR ILRRTESLQD TKPANRCCLL RHLLRLYLDR VFKNYQTPDH YTLRKISLA NSFLTIIKKDL RLCHAHMTCH CGEEAMKKYS QILSHFEKLE PQAAVVKALG ELDILLQWME ETE
<b>Purity:</b>	>95% by SDS-PAGE and HPLC analyses.
<b>Biological Activity:</b>	Fully biologically active when compared to standard. The ED <sub>50</sub> 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 0.6 ng/ml, corresponding to a specific activity of $> 1.7 \times 10^6$ IU/mg.
<b>Appearance:</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Formulation:</b>	Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.2, containing 5% trehalose.
<b>Endotoxin:</b>	Less than 1EU/µg of rHuIL-20 as determined by LAL method.
<b>Reconstitution:</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml. Stock solutions should be apportioned into working aliquots and stored at $\leq -20^\circ\text{C}$ . Further dilutions should be made in appropriate buffered solutions.
<b>Storage:</b>	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C. <b>Avoid repeated freeze/thaw cycles.</b>
<b>Usage:</b>	This material is for research, laboratory or further evaluation purposes. <b>NOT FOR HUMAN USE.</b>

### ***Human Interleukin-20***

Interleukin-20 (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.