

Recombinant Human Interleukin-20

#R00061

Size: 10 µg/100 µg/500 µg

Stability & Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 3 months, -20 to -70 °C under sterile conditions after reconstitution.



Warning: This product is intended for scientific research only. It is not to be used for medical or diagnostic procedures in humans or animals, nor as a food, cosmetic, or household product.

Background

Human Interleukin-20 (IL-20) is encoded by the IL20 gene located on the chromosome 1 and belongs to the IL-10 family that including IL-10, IL-19, IL-22, IL-24, and IL-26. It is secreted by activated keratinocytes and monocytes, and signals through two distinct cell-surface receptor complexes on keratinocytes and other epithelial cells. IL-20 has functions of regulating proliferation and differentiation of keratinocytes during inflammation, and causing cell expansion of multipotential hematopoietic progenitor cells.

AA Sequence

MLKTLNLGSCVIATNLQEIRNGFSEIRGSVQAKDGNID
IRILRRTESLQDTKPANRCCLLRHLLRLYLDRVFKNYQ
TPDHYTLRKISSLANSLFTIKKDLRLCHAHMTCHCGEE
AMKKYSQILSHFEKLEPQAAVVKALGELDILLQWMEE
TE

Reconstitution

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 ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.

Product Specification

Synonyms	Cytokine Zcyto10
Accession	Q9NYY1
GeneID	50604
Species	Human
Source	Escherichia coli.
Molecular Weight	Approximately 17.6 kDa, a single non-glycosylated polypeptide chain containing 153 amino acids.
Purity	> 95 % by SDS-PAGE and HPLC analyses.
Biological Activity	Fully biologically active when compared to standard. The ED ₅₀ as determined by a cell proliferation assay using human IL-20Rα and human IL-20Rβ co-transfected murine BaF3 pro-B cells is less than 0.5 ng/ml,

	corresponding to a specific activity of $> 2.0 \times 10^6$ IU/mg.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation	Lyophilized from a 0.2 μ m filtered concentrated solution in PBS, pH 7.2, with trehalose.
Endotoxin	Less than 1 EU/ μ g of rHuIL-20 as determined by LAL method.