

Recombinant Human IL-20

Information

Gene ID	50604
Accession #	Q9NYY1
Alternate Names	Interleukin-20, Cytokine Zcyto10
Source	<i>Escherichia coli</i> .
M.Wt	Approximately 17.6 kDa, a single non-glycosylated polypeptide chain containing 153 amino acids.
AA Sequence	MLKTLNLGSC VIATNLQEIR NGFSEIRGSV QAKDGNIDIR ILRRTESLQD TKPANRCCLL RHLLRLYLDR VFKNYQTPDH YTLRKISSLA NSFLTIKKDL RLCHAHMTCH CGEEAMKKYS QILSHFEKLE PQAAVVKALG ELDILLQWME ETE
Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
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.
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.2, with trehalose.
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.
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 > 2.0×10 ⁶ IU/mg.
Shipping Condition	Gel pack.
Handling	Centrifuge the vial prior to opening.
Usage	For Research Use Only! Not to be used in humans.

Components and Storage

Components	10 µg	100 µg	500 µg
Recombinant Human IL-20	10 µg	100 µg	500 µg

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Quality Control

Purity	>95% by SDS-PAGE and HPLC analyses.
Endotoxin	Less than 1 EU/μg of rHuIL-20 as determined by LAL method.

Description

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.

Reference

1. Sabat R. 2010. Cytokine Growth Factor Rev, 21: 315-24.
2. Blumberg H, Conklin D, Xu WF, et al. 2001. Cell, 104: 9-19.
3. Wei CC, Hsu YH, Li HH, et al. 2006. J Biomed Sci, 13: 601-12.
4. Hsu YH, Li HH, Hsieh MY, et al. 2006. Arthritis Rheum, 54: 2722-33.

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