Active Recombinant Human Interleukin 20

Cat. No. IL20-500H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IL-20 produced in E.Coli is a homodimeric, non-glycosylated polypeptide chain containing 2 x 153 amino acids and having a total molecular mass of 35,212 Dalton.
Species	Human
Source	E.coli
Description	The newly discovered cytokine interleukin-20 (IL-20) is structurally related to IL-10, yet it appears to be an autocrine factor for keratinocytes that regulates their participation in inflammation.
Form	Recombinant hIL-20 was lyophilized from a concentrated (1mg/ml) solution containing 100mM sodium chloride and 10mM sodium citrate buffer pH-3.
Purity	Purity Greater than 98% as determined by: Analysis by RP-HPLC. Reducing and non-reducing SDS-PAGE.
Bio-activity	Human IL-20 is fully biologically active when compared to standard. The Biological Acitivity was determined by the ability to activiate STAT following receptor ligand interaction.
Physical Appearance	Sterile Filtered white lyophilized (freeze-dried) powder.
Solubility	Centrifuge vial before opening. When reconstituting the product, gently pipet and

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	wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg"s/ml, which can be further diluted into other aqueous solutions.
Purity Greater than 98% as determined by	Analysis by RP-HPLC. Reducing and non-reducing SDS-PAGE.
Protein Content determined by	UV spectroscopy at 280 nm. Analysis by RP-HPLC calibrated against a known standard. Quantitation on SDS-PAGE against a known standard.
Endotoxin Level	Endotoxin level as measured by LAL is <0.01ng/ug or <0.1EU/ug.
Amino acid sequence	MLKTLNLGSC VIATNLQEIR NGFSEIRGSV QAKDGNIDIR ILRRTESLQD TKPANRCCLL RHLLRLYLDR VFKNYQTPDH YTLRKISSLA NSFLTIKKDL RLCHAHMTCH CGEEAMKKYS QILSHFEKLE PQAAVVKALG ELDILLQWME ETE
Storage	Lyophilized product is very stable at -20 degrees. Reconstituted material should be aliquoted and frozen at -20. It is recommended to add a carrier protein (0.1% HSA or BSA) for long term storage.
Pathways	Cytokine-cytokine receptor interaction; Jak-STAT signaling pathway

GENE INFORMATION

Gene Name	IL20 interleukin 20 [Homo sapiens]
Official Symbol	IL20
Synonyms	IL20; interleukin 20; IL-20; IL10D; ZCYTO10; MGC96907; OTTHUMP00000034618;

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	four alpha helix cytokine; OTTHUMP00000034617; Four alpha helix cytokine Zcyto10
Gene ID	50604
mRNA Refseq	NM_018724
Protein Refseq	NP_061194
MIM	605619
UniProt ID	Q9NYY1
Chromosome Location	1q32
Function	cytokine activity; interleukin-20 receptor binding

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