

IL-20R alpha Protein, Human (221a.a, HEK293, His)

Cat. No.:	HY-P72562
Synonyms:	Interleukin-20 receptor subunit alpha; IL-20R-alpha; IL-20RA; CRF2-8; IL-20R1; ZcytoR7
Species:	Human
Source:	HEK293
Accession:	Q9UHF4 (V30-K250)
Gene ID:	53832
Molecular Weight:	Approximately 40 kDa

PROPERTIES

AA Sequence	<p>V P C V S G G L P K P A N I T F L S I N M K N V L Q W T P P E G L Q G V K V T Y</p> <p>T V Q Y F I Y G Q K K W L N K S E C R N I N R T Y C D L S A E T S D Y E H Q Y Y</p> <p>A K V K A I W G T K C S K W A E S G R F Y P F L E T Q I G P P E V A L T T D E K</p> <p>S I S V V L T A P E K W K R N P E D L P V S M Q Q I Y S N L K Y N V S V L N T K</p> <p>S N R T W S Q C V T N H T L V L T W L E P N T L Y C V H V E S F V P G P P R R A</p> <p>Q P S E K Q C A R T L K D Q S S E F K A K</p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>IL-20R alpha, also known as a alpha subunit of IL-20 receptor (IL-20RA), belongs to the type II cytokine receptor family^[1]. IL-20R alpha is widely expressed with highest levels in skin and testis and high levels in brain^[2]. IL20RA and IL20RB is found to be upregulated in psoriatic skin lesions on keratinocytes^[3].</p> <p>IL-20R alpha forms functional heterodimers with different subunit protein. IL-20R alpha serves as the receptor for IL-19, IL-20 and IL-24 by dimerizing with IL20RB, however serves as the receptor for IL-26 by dimerizing with IL-10RB. IL-20R alpha transduces ligand-binding at least in part through STAT3 activation, and plays an important role in epidermal function and</p>
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psoriasis^[4].

The sequence of amino acids in IL-12 beta proteins of human is very different from mouse (64.64%).

REFERENCES

- [1]. Wang F, et al. Prominent production of IL-20 by CD68+/CD11c+ myeloid-derived cells in psoriasis: Gene regulation and cellular effects. *J Invest Dermatol.* 2006 Jul;126(7):1590-9.
- [2]. Blumberg H, et al. Interleukin 20: discovery, receptor identification, and role in epidermal function. *Cell.* 2001 Jan 12;104(1):9-19.
- [3]. Sheikh F, et al. Cutting edge: IL-26 signals through a novel receptor complex composed of IL-20 receptor 1 and IL-10 receptor 2. *J Immunol.* 2004 Feb 15;172(4):2006-10.
- [4]. Wang F, et al. Prominent production of IL-20 by CD68+/CD11c+ myeloid-derived cells in psoriasis: Gene regulation and cellular effects. *J Invest Dermatol.* 2006 Jul;126(7):1590-9.
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