

## IL-20RB Protein, Rat, Recombinant (hFc)

### General Information

Synonyms:	interleukin 20 receptor beta;interleukin 20 receptor $\beta$
Protein Construction:	A DNA sequence encoding the rat IL20RB (B8K1X9) (Met1-Pro227) was expressed, fused with the Fc region of human IgG1 at the C-terminus. Predicted N terminal: Phe 22
Species:	Rat
Expression Host:	HEK293 Cells
Accession:	B8K1X9
Molecular Weight:	50.2 kDa (predicted); 61 kDa (reducing conditions)

### QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 70 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/ $\mu$ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 $\mu$ m filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

### Preparation and Storage

**Reconstitution:**  
A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

**Stability & Storage:**

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

**Shipping:**

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

IL20RB belongs to the type II cytokine receptor family. There are two kinds of type II cytokine receptors: cytokine receptors that bind type I and type II interferons; cytokine receptors that bind members of the interleukin-10 family (interleukin-10, interleukin-20, and interleukin-22). Type II cytokine receptors are similar to type I cytokine receptors except they do not possess the signature sequence WSXWS that is characteristic of type I receptors. They are expressed on the surface of certain cells, which bind and respond to a select group of cytokines. These

receptors are related predominantly by sequence similarities in their extracellular portions that are composed of tandem Ig-like domains. The intracellular domain of type II cytokine receptors is typically associated with a tyrosine kinase belonging to the Janus kinase (JAK) family. IL20RB and IL20RA form a heterodimeric receptor for interleukin-20.

### Reference

Zhu H,et al.(2009) Expression pattern of mda-7/IL-24 receptors in liver cancer cell lines. Hepatobiliary Pancreat Dis Int. 8(4):402-6.

Logsdon NJ,et al.(2012) Purification, crystallization and preliminary X-ray diffraction analysis of the IL-20-IL-20R1-IL-20R2 complex. Acta Crystallogr Sect F Struct Biol Cryst Commun. 68(Pt 1):89-92.

Kingo K,et al.(2008) Association analysis of IL20RA and IL20RB genes in psoriasis. Genes Immun. 9(5):445-51.

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