

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

General Information

Synonyms: interleukin 20 receptor beta; interleukin 20 receptor β

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/ μ g of the protein as determined by the LAL method.

Formulation: Lyophilized from a solution filtered through a 0.22 μ 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.

Shipping:

In general, Lyophilized powders are shipping with blue 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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